

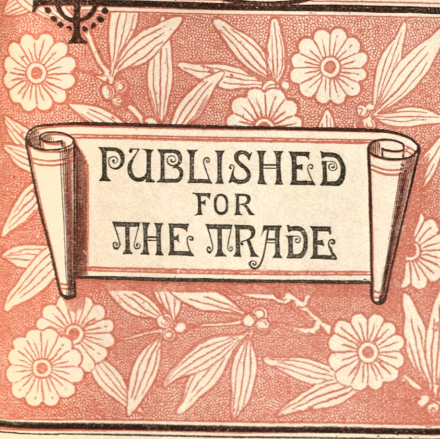


32c

Capt. Char H Reed
Richmond
Maine



DIARY



CALENDAR.

1888.

	Su.	Mo.	Tu.	We.	Th.	Fri.	Sa.		Su.	Mo.	Tu.	We.	Th.	Fri.	Sa.
Jan.	1	2	3	4	5	6	7	July.	1	2	3	4	5	6	7
	8	9	10	11	12	13	14		8	9	10	11	12	13	14
	15	16	17	18	19	20	21		15	16	17	18	19	20	21
	22	23	24	25	26	27	28		22	23	24	25	26	27	28
	29	30	31	...	...	...	...		29	30	31	...	...	...	...
Feb.	...	...	...	1	2	3	4	Aug.	...	...	...	1	2	3	4
	5	6	7	8	9	10	11		5	6	7	8	9	10	11
	12	13	14	15	16	17	18		12	13	14	15	16	17	18
	19	20	21	22	23	24	25		19	20	21	22	23	24	25
	26	27	28	29	...	...	...		26	27	28	29	30	31	...
March.	...	...	...	...	1	2	3	Sept.	...	...	...	...	...	...	1
	4	5	6	7	8	9	10		2	3	4	5	6	7	8
	11	12	13	14	15	16	17		9	10	11	12	13	14	15
	18	19	20	21	22	23	24		16	17	18	19	20	21	22
	25	26	27	28	29	30	31		23	24	25	26	27	28	29
April.	...	...	...	...	...	...	...	Oct.	30	...	...	...	...	...	...
	1	2	3	4	5	6	7		..	1	2	3	4	5	6
	8	9	10	11	12	13	14		7	8	9	10	11	12	13
	15	16	17	18	19	20	21		14	15	16	17	18	19	20
	22	23	24	25	26	27	28		21	22	23	24	25	26	27
May.	29	30	...	...	...	...	...	Nov.	28	29	30	31	...	...	...
	...	...	1	2	3	4	5		...	...	...	...	1	2	3
	6	7	8	9	10	11	12		4	5	6	7	8	9	10
	13	14	15	16	17	18	19		11	12	13	14	15	16	17
	20	21	22	23	24	25	26		18	19	20	21	22	23	24
June.	27	28	29	30	31	...	...	Dec.	25	26	27	28	29	30	...
	...	...	...	...	1	2	...		...	...	...	...	...	...	1
	3	4	5	6	7	8	9		2	3	4	5	6	7	8
	10	11	12	13	14	15	16		9	10	11	12	13	14	15
	17	18	19	20	21	22	23		16	17	18	19	20	21	22
24	25	26	27	28	29	30	...	23	24	25	26	27	28	29	
...	...	...	...	...	...	...	...	30	31	...	...	...	...	...

WEIGHTS AND MEASURES.

MEASURE OF LENGTH.

4.. In.	make 1 Hand.	3 Feet make 1 Yard.
7.92 In.	" 1 Link.	5½ Yds. " 1 Rod or Pole
18.. In.	" 1 Cubit.	40 Poles " 1 Furlong.
12.. Ft.	" 1 Foot.	8 Fur. " 1 Mile.
6.. Ft.	" 1 Fathom.	69 1-6 Miles make 1 Degree.
60 Geographical Miles make 1 Degree.		
1760 Yards		} = 1 Mile.
5280 Feet		

MEASURE OF SURFACE.

144 Square Inches	make 1 Square Foot.
9 Square Feet	" 1 Square Yard.
30½ Square Yards	" 1 Rod, Perch or Pole.
40 Square Rods	" 1 Square Rod.
4 Square Rods	" 1 Square Acre.
10 Square Chains	" 1 Square Acre.
640 Square Acres	" 1 Square Mile.
Gunter's Chain equal to 22 Yards or 100 Links.	
272½ Square Feet	make 1 Square Rod.
43,560 Square Feet	" 1 Acre.

MEASURE OF SOLIDITY.

1728 Cubic Inches	make 1 Cubic Foot.
27 Cubic Feet	" 1 Cubic Yard.

AVOIRDUPOIS WEIGHT.

27½ Grains	make 1 Drachm (dr.) or 27½ Grains.
16 Drachms	" 1 Ounce (oz.) or 437½ "
16 Ounces	" 1 Pound (lb.) or 7000 "
28 Pounds	" 1 Quarter (qr.)
4 Quarters	" 1 Hundred-Weight (cwt.)
2 Cwts.	" 1 Ton.
2240 Pounds	" 1 Ton.

TROY WEIGHT.

24 Grains	make 1 Pennyweight, or 24 Grains.
20 Pennywts.	" 1 Ounce, or 480 "
12 Ounces	" 1 Pound, or 5760 "

APOTHECARIES' WEIGHT.

20 Grains	make 1 Scruple.	8 Drachms	make 1 Ounce.
3 Scruples	" 1 Drachm.	12 Ounces	" 1 Pound.

DIAMOND WEIGHT.

16 Parts	make 1 Grain (4-5ths Grain Troy.)
4 Grains	" 1 Carat (3 1-5ths Grains Troy)

LIQUID MEASURE.

4 Gills	make 1 Pint.	31½ Gallons	make 1 Barrel.
2 Pints	" 1 Quart.	54 Gallons	" 1 Hhd.
4 Quarts	" 1 Gallon.		

DRY MEASURE.

8 Quarts	make 1 Peck.	8 Bushels	make 1 Quarter.
4 Pecks	" 1 Bushel.	36 Bushels	" 1 Chaldron.
1 Bushel equal to 28½ cubic in. nearly.			

WEIGHT PER BUSHEL OF GRAIN, ETC.

The following Table shows the number of pounds per bushel required, by law or custom, in the sale of articles specified, in the several States of the Union.

STATES.	Barley.	Buckwheat.	Coal.	Corn, shd.	Com Meal.	Onions.	Oats.	Potatoes.	Rye.	Wheat.	Salt.	Turnips.	Beans, wh.	Clover Sd.	Timothy.
Maine.....	48	48	..	56	50	52	30	60	60	..	50	64	..	..	..
N. Hampshire	..	..	..	56	50	..	30	60	56	60	..	60	..	..	..
Vermont.....	48	48	..	..	..	32	60	56	60	70	..	64	60	42	..
Massachusetts	48	48	..	56	50	52	32	60	56	60	..	..	..	..	..
Connecticut...	..	45	..	56	..	28	60	56	56	..	..	..	..	..	..
New York....	48	48	..	58	..	32	60	56	60	..	..	62	60	44	..
New Jersey...	48	50	..	56	..	30	60	56	60	..	..	64	..	..	..
Pennsylvania.	47	48	..	56	..	30	56	56	60	85	..	62	..	..	..
Delaware.....	..	..	..	56	..	..	..	..	..	..	..	..	..	..	..
Maryland.....	48	48	..	56	..	57	32	60	56	60	56	62	64	45	..
Dist. Columbia	47	48	..	56	48	57	32	56	56	60	50	62	60	45	..
Virginia.....	48	48	..	56	50	..	32	60	56	60	..	56	60	45	..
West Virginia.	48	52	80	56	48	..	32	60	56	60	..	60	60	45	..
North Carolina	48	50	..	54	46	..	30	..	56	60	..	64	..	..	..
South Carolina	48	56	30	56	50	57	33	60	56	60	50	60	60	..	..
Georgia.....	40	..	80	56	48	75	35	56	..	60	56	..	60	45	..
Louisiana.....	32	..	..	56	..	..	32	..	32	60	..	..	..	..	..
Arkansas.....	48	52	80	56	50	57	32	60	56	60	50	60	60	45	..
Tennessee....	48	50	..	56	50	56	32	60	56	60	..	60	..	45	..
Kentucky.....	48	52	..	56	50	57	33	56	56	60	50	60	60	45	..
Ohio.....	48	50	..	56	..	..	32	60	56	60	..	60	60	45	..
Michigan.....	48	48	80	56	..	54	32	60	56	60	56	58	60	60	45
Indiana.....	48	50	70	56	50	48	32	60	56	60	50	60	60	..	..
Illinois.....	48	52	..	56	48	57	32	60	56	60	50	60	60	..	..
Wisconsin....	48	50	..	56	..	..	32	60	56	60	..	60	..	..	..
Minnesota....	48	42	..	56	..	..	32	60	56	60	..	60	..	..	..
Iowa.....	48	52	..	56	..	57	33	60	56	60	50	60	60	45	..
Missouri.....	48	52	..	56	..	57	32	60	56	60	50	60	60	45	..
Kansas.....	50	50	..	56	50	57	32	60	56	60	50	60	60	45	..
Nebraska.....	48	52	..	56	50	57	34	60	56	60	50	60	60	45	..
California.....	50	40	..	52	..	..	32	..	54	60	..	..	..	..	..
Oregon.....	46	42	..	56	..	..	36	60	56	60	..	60	..	..	..

INTEREST TABLE.

FOUR PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
1 Dy.	0	0	0	0	0	0	0	0	0	0	1	11
3 "	0	0	0	0	0	0	0	0	0	0	3	33
5 "	0	0	0	0	0	0	0	0	0	0	5	55
10 "	0	0	0	0	0	0	0	0	0	0	10	111
12 "	0	0	0	0	0	0	0	0	0	0	12	133
25 "	0	0	0	0	0	0	0	0	0	0	25	278
1 Mo.	0	0	0	0	0	0	0	0	0	0	1	11
2 "	0	0	0	0	0	0	0	0	0	0	2	22
3 "	0	0	0	0	0	0	0	0	0	0	3	33
4 "	0	0	0	0	0	0	0	0	0	0	4	44
5 "	0	0	0	0	0	0	0	0	0	0	5	55
6 "	0	0	0	0	0	0	0	0	0	0	6	66
7 "	0	0	0	0	0	0	0	0	0	0	7	77
8 "	0	0	0	0	0	0	0	0	0	0	8	88
9 "	0	0	0	0	0	0	0	0	0	0	9	99
10 "	0	0	0	0	0	0	0	0	0	0	10	110
11 "	0	0	0	0	0	0	0	0	0	0	11	121
1 Yr.	4	8	12	16	20	24	28	32	36	40	400	4000

FIVE PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
1 Dy.	0	0	0	0	0	0	0	0	0	0	1	14
3 "	0	0	0	0	0	0	0	0	0	0	3	42
5 "	0	0	0	0	0	0	0	0	0	0	5	69
10 "	0	0	0	0	0	0	0	0	0	0	10	139
12 "	0	0	0	0	0	0	0	0	0	0	12	167
25 "	0	0	0	0	0	0	0	0	0	0	25	347
1 Mo.	0	0	0	0	0	0	0	0	0	0	1	14
2 "	0	0	0	0	0	0	0	0	0	0	2	28
3 "	0	0	0	0	0	0	0	0	0	0	3	42
4 "	0	0	0	0	0	0	0	0	0	0	4	56
5 "	0	0	0	0	0	0	0	0	0	0	5	70
6 "	0	0	0	0	0	0	0	0	0	0	6	84
7 "	0	0	0	0	0	0	0	0	0	0	7	98
8 "	0	0	0	0	0	0	0	0	0	0	8	112
9 "	0	0	0	0	0	0	0	0	0	0	9	126
10 "	0	0	0	0	0	0	0	0	0	0	10	140
11 "	0	0	0	0	0	0	0	0	0	0	11	154
1 Yr.	5	10	15	20	25	30	35	40	45	50	500	5000

SIX PER CENT.

TIME.	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$100	\$1000
1 Dy.	0	0	0	0	0	0	0	0	0	0	1	17
3 "	0	0	0	0	0	0	0	0	0	0	3	50
5 "	0	0	0	0	0	0	0	0	0	0	5	83
10 "	0	0	0	0	0	0	0	0	0	0	10	167
12 "	0	0	0	0	0	0	0	0	0	0	12	200
25 "	0	0	0	0	0	0	0	0	0	0	25	417
1 Mo.	0	0	0	0	0	0	0	0	0	0	1	17
2 "	0	0	0	0	0	0	0	0	0	0	2	34
3 "	0	0	0	0	0	0	0	0	0	0	3	50
4 "	0	0	0	0	0	0	0	0	0	0	4	67
5 "	0	0	0	0	0	0	0	0	0	0	5	83
6 "	0	0	0	0	0	0	0	0	0	0	6	100
7 "	0	0	0	0	0	0	0	0	0	0	7	117
8 "	0	0	0	0	0	0	0	0	0	0	8	134
9 "	0	0	0	0	0	0	0	0	0	0	9	150
10 "	0	0	0	0	0	0	0	0	0	0	10	167
11 "	0	0	0	0	0	0	0	0	0	0	11	183
1 Yr.	6	12	18	24	30	36	42	48	54	60	600	6000

RATE OF INCOME ON STOCKS.

Purchased at the following prices, (par value being \$100), and bearing interest at the following rates.

Paid.	3%	4%	5%	6%	7%	8%	9%
\$50	6 00	8 00	10 00	12 00	14 00	16 00	18 00
55	5 45	7 27	9 09	10 90	12 72	14 55	16 36
60	5 00	6 67	8 33	10 00	11 66	13 33	15 00
65	4 62	6 15	7 69	9 23	10 76	12 30	13 85
70	4 28	5 71	7 14	8 57	10 00	11 42	12 85
75	4 00	5 33	6 66	8 00	9 33	10 66	12 00
80	3 75	5 00	6 25	7 50	8 75	10 00	11 25
85	3 53	4 70	5 88	7 05	8 23	9 41	10 58
90	3 33	4 44	5 55	6 66	7 77	8 88	10 00
91	3 30	4 40	5 49	6 59	7 69	8 79	9 89
92	3 26	4 34	5 43	6 52	7 62	8 70	9 78
93	3 23	4 30	5 38	6 45	7 53	8 60	9 68
94	3 19	4 26	5 32	6 38	7 45	8 51	9 57
95	3 15	4 21	5 26	6 31	7 36	8 42	9 47
96	3 13	4 17	5 21	6 25	7 29	8 33	9 38
97	3 09	4 12	5 15	6 18	7 22	8 25	9 28
98	3 06	4 08	5 10	6 12	7 14	8 16	9 18
99	3 03	4 04	5 05	6 06	7 07	8 08	9 09
101	2 97	3 95	4 95	5 94	6 93	7 92	8 91
102	2 94	3 92	4 90	5 88	6 86	7 84	8 82
103	2 91	3 88	4 85	5 83	6 80	7 77	8 74
104	2 88	3 85	4 81	5 77	6 73	7 69	8 65
105	2 85	3 80	4 76	5 71	6 66	7 61	8 57
106	2 83	3 77	4 72	5 65	6 60	7 55	8 49
107	2 80	3 74	4 67	5 61	6 54	7 48	8 41
108	2 78	3 70	4 63	5 56	6 48	7 41	8 33
109	2 75	3 67	4 59	5 50	6 42	7 34	8 26
110	2 72	3 63	4 54	5 45	6 36	7 27	8 18
115	2 60	3 48	4 34	5 21	6 08	6 95	7 83
120	2 50	3 33	4 16	5 00	5 83	6 66	7 50
130	2 30	3 07	3 84	4 61	5 38	6 15	6 92
140	2 14	2 85	3 57	4 28	5 00	5 71	6 43
150	2 00	2 67	3 33	4 00	4 66	5 33	6 00
160	1 88	2 50	3 12	3 75	4 38	5 00	5 62
170	1 78	2 37	3 00	3 63	4 26	4 88	5 50
180	1 68	2 25	2 88	3 50	4 12	4 74	5 29
190	1 58	2 14	2 77	3 38	4 00	4 62	5 24
200	1 50	2 00	2 60	3 20	3 80	4 40	5 00

TO FIND LENGTH OF DAY OR NIGHT.

At any time of the year add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising for the length of the day. Subtract the time of setting from 12 hours, and to the remainder add the time of rising next morning for the length of the night. These rules are equally true for apparent time.

RATES OF POSTAGE.

POSTAL CARDS, 1 cent each, go without further charge to all parts of the United States and Canada. Cards for foreign countries (within the Postal Union) 2 cents each. *Postal Cards are unavailable* with any writing or printing on the address side, except the direction, or with anything pasted upon or attached to them.

ALL LETTERS, to all parts of the United States and Canada, 2 cents for each ounce or fraction thereof.

LOCAL, OR "DROP" LETTERS, that is, for the city or town where deposited, 2 cents where the carrier system is adopted, and 1 cent where there is no carrier system.

FIRST CLASS.—Letters and all other written matter, *whether sealed or unsealed*, and all other matter *sealed, nailed, sewed, tied, or fastened in any manner* so that it cannot be easily examined, 2 cents for each ounce or fraction thereof.

SECOND CLASS.—Only for publishers and news-agents; 1 cent per pound.

NEWSPAPERS and Periodicals (regular publications) can be mailed by the public at the rate of 1 cent for each 4 ounces or fraction thereof.

THIRD CLASS.—Printed matter, in *unsealed wrappers only* (all matter inclosed in notched envelopes must pay letter rates), 1 cent for each 2 ounces or fraction thereof, *which must be fully prepaid*. This includes books, circulars, chromos, engravings, handbills, lithographs, music, pamphlets, proof-sheets and manuscript accompanying the same, reproductions by the electric pen, hektograph, metallograph, papyrograph, and, in short, any reproduction upon paper by any process *except handwriting and the copying press*. Limit of weight 4 lbs., except for a single book, which may weigh more.

FOURTH CLASS.—All mailable matter not included in the three preceding classes which is so prepared for mailing as to be *easily withdrawn from the wrapper* and examined, 1 cent per ounce or fraction thereof. Limit of weight, 4 lbs. Full prepayment compulsory.

REFORWARDING.—Letters will be forwarded from one post office to another upon the *written* request of the *person addressed*, without additional postage charge; but unclaimed packages *cannot be returned to the sender* until stamps are furnished to pay the return postage.

PERMISSIBLE WRITING.—No writing is permitted on third or fourth class matter except as follows: The name and address of sender on the outside or inside of package, preceded by the word "from." On the wrapper may also be written the names and number of articles inclosed. The sender is further allowed to mark a word or passage in a book or paper to which he desires to call special attention. He may also write a simple inscription

RATES OF POSTAGE.

or dedication upon the cover or blank leaves of a book or pamphlet. There may be attached to articles of merchandise, by tag or label, a mark, number, name, or letter for purpose of identification. Printed circulars may contain the written name of the sender, or of the addressee, and the date. Any other writing on third or fourth class matter will subject the package to letter rates of postage, and render the sender liable to a fine of ten dollars for each offense. Printed matter may be inclosed with fourth class matter, but the whole package is subject to the rate of 1 cent per ounce or fraction thereof.

POSTAL NOTES.

Upon payment of a fee of 3 cents each, Postal Notes for any amount under Five Dollars may be purchased at any Money-order Office, payable to bearer at any time within three calendar months from the last day of the month during which it was issued; but payable *only* at such Money-order Office as the purchaser may select or at the office of issue.

MONEY ORDERS.

For Orders not exceeding \$5	5 cents.
Exceeding \$5 and not exceeding \$10	8 "
" 10 " " " " " " " " " " " " " " " "	15 " 10 "
" 15 " " " " " " " " " " " " " " " "	30 " 15 "
" 30 " " " " " " " " " " " " " " " "	40 " 20 "
" 40 " " " " " " " " " " " " " " " "	50 " 25 "
" 50 " " " " " " " " " " " " " " " "	60 " 30 "
" 60 " " " " " " " " " " " " " " " "	70 " 35 "
" 70 " " " " " " " " " " " " " " " "	80 " 40 "
" 80 " " " " " " " " " " " " " " " "	100 " 45 "

When a larger sum than \$100 is required, additional Orders to make it up must be obtained.

FOREIGN POSTAGE.

The rates for letters are for the half ounce or fraction thereof, and those for newspapers for 2 ounces or fraction thereof:—

To Great Britain and Ireland, France, Spain, all parts of Germany, including Austria, Denmark, Switzerland, Italy, Russia, Norway, Sweden, Turkey (European and Asiatic), Egypt, letters 5 cents, newspapers 1 cent for each 2 ounces or fraction thereof.

To Australia, letters, via San Francisco (except to New South Wales), 5 cents; via Brindisi, 15 cents; newspapers, via San Francisco, 2 cents; via Brindisi, 4 cents. China, letters, via San Francisco, 5 cents; via Brindisi, 13 cents; 4 cents for each paper not weighing over 4 ounces. British India, Italian mail, letters 5 cents, newspapers 1 cent for 2 ounces. Japan, letters, via San Francisco, 5 cents; newspapers 1 cent for 2 ounces.

STANDARD TIME.

In this Almanac the risings and settings of the Sun and Moon are given in local mean time, as heretofore. The Tides are given in STANDARD TIME.

To change to STANDARD TIME add or subtract the minutes as given below, according as they are marked *plus* or *minus*.

Standard Time Divisions as adopted by the Railroads.

EASTERN STANDARD—75th Meridian. Canada, between Quebec and Detroit,—U. S. east of Buffalo, N. Y.; Pittsburg, Pa.; Wheeling and Huntington, W. Va.; Bristol, Tenn.; Charlotte, N. C., and Augusta, Ga.

CENTRAL STANDARD—90th Meridian. West from "Eastern" limits, as above, to Broadview, Canada; to the Missouri River in Dakota; North Platte and McCook, Nebraska; Wallace and Dodge City, Kansas; Toyah and Sanderson, Texas.

MOUNTAIN STANDARD—105th Meridian. West from "Central" limits to Heron, Montana; Ogden, Utah; Needles and Yuma, Arizona.

PACIFIC STANDARD—120th Meridian. West from "Mountain" limits to coast.

Correction for the following Cities.

Eastern Standard.

75° Longitude.

	Minutes.
Bangor, Me.	— 25
Augusta, Me.	— 21
Portland, Me.	— 19
Boston, Mass.	— 16
Newport, R. I.	— 15
Providence, R. I.	— 14
Concord, N. H.	— 14
New London, Conn.	— 11
Springfield, Mass.	— 10
Montpelier, Vt.	— 10
Hartford, Conn.	— 9
Montreal, Que.	— 6
Albany, N. Y.	— 5
New York, N. Y.	— 5
Utica, N. Y.	— 4
Philadelphia, Pa.	— 1
Syracuse, N. Y.	— 1
Baltimore, Md.	— 5
Washington, D. C.	— 6
Rochester, N. Y.	— 8
Buffalo, N. Y.	— 11
Pittsburg, Pa.	— 20

Mountain Standard.

105° Longitude.

Denver, Col.	0
Salt Lake City, Utah, +	28

Central Standard.

90° Longitude.

	Minutes.
Cleveland, Ohio	— 33
Columbus, Ohio	— 28
Detroit, Mich.	— 28
Toledo, Ohio	— 26
Dayton, Ohio	— 23
Cincinnati, Ohio	— 22
Louisville, Ky.	— 18
Indianapolis, Ind.	— 16
Chicago, Ill.	— 10
Milwaukee, Wis.	— 8
Springfield, Ill.	— 2
Memphis, Tenn.	0
New Orleans, La.	0
St. Louis, Mo.	+ 1
Rock Island, Ill.	+ 3
Dubuque, Iowa	+ 3
Burlington, Iowa	+ 5
St. Paul, Minn.	+ 12
Des Moines, Iowa	+ 14
Kansas City, Mo.	+ 18
Galveston, Texas	+ 19
Omaha, Neb.	+ 24

Pacific Standard.

120° Longitude.

Sacramento, Cal.	+ 6
San Francisco, Cal.	+ 10

POPULATION OF THE UNITED STATES.

CENSUS OF 1880.

Alabama	1,262,505	Oregon	3,198,066
Arkansas	802,525	Pennsylvania	4,282,891
California	864,694	Rhode Island	276,531
Colorado	194,327	South Carolina	995,577
Connecticut	622,700	Tennessee	1,542,359
Delaware	146,608	Texas	1,591,749
Florida	269,493	Vermont	332,286
Georgia	1,542,180	Virginia	1,512,565
Illinois	3,077,871	West Virginia	618,457
Indiana	1,978,301	Wisconsin	1,315,497
Iowa	1,624,615		
Kansas	996,096	Total States	49,371,340
Kentucky	1,648,690		
Louisiana	939,946	THE TERRITORIES.	
Maine	648,936	Alaska	—
Maryland	934,943	Arizona	40,440
Massachusetts	1,783,085	Dakota	135,177
Michigan	1,636,937	Dist. of Columbia	177,624
Minnesota	780,773	Idaho	32,610
Mississippi	1,131,597	Montana	39,159
Missouri	2,168,380	New Mexico	119,565
Nebraska	452,402	Utah	143,963
Nevada	62,266	Washington	75,116
New Hampshire	346,991	Wyoming	20,789
New Jersey	1,131,116	Total Territories	784,443
New York	5,082,871	Total U. S.	50,155,783
North Carolina	1,399,750		

POPULATION OF PRINCIPAL CITIES.

Cities having a population of 30,000 and upward, according to the United States Census of 1880.

Rank.		Rank.	
21	Albany, N. Y.	38	Minn'ap'lis, Minn. 46,887
23	Allegheny, Pa.	40	Nashville, Tenn. 43,350
49	Atlanta, Ga.	15	Newark, N. J. 136,508
7	Baltimore, Md.	26	N. Haven, Conn. 62,882
5	Boston, Mass.	10	New Orleans, La. 216,090
3	Brooklyn, N. Y.	1	N. York, N. Y. 1,206,299
13	Buffalo, N. Y.	51	Oakland, Cal. 34,555
31	Cambridge, Mass. 52,669	63	Omaha, Neb. 30,518
44	Camden, N. J. 41,659	34	Patterson, N. J. 51,031
36	Charleston, S. C. 49,984	2	Philadelphia, Pa. 847,170
4	Chicago, Ill. 503,185	12	Pittsburg, Pa. 156,389
8	Cincinnati, Ohio 255,139	53	Portland, Me. 33,810
11	Cleveland, Ohio 160,146	20	Providence, R. I. 104,857
33	Columbus, Ohio. 51,647	41	Reading, Pa. 43,278
47	Dayton, Ohio 38,678	25	Richmond, Va. 63,600
50	Denver, Col. 35,629	22	Rochester, N. Y. 89,366
18	Detroit, Mich. 116,340	9	S'n Francisco, Cal. 233,959
37	Fall River, Mass. 48,961	62	Savannah, Ga. 30,709
58	Gr'd Rapids, Mich. 32,016	39	Scranton, Pa. 45,850
60	Harrisburg, Pa. 30,762	55	Springfield, Mass. 33,340
43	Hartford, Conn. 42,015	57	St. Joseph, Mo. 32,431
59	Hoboken, N. J. 30,999	6	St. Louis, Mo. 350,518
24	Indianapolis, Ind. 75,056	45	St. Paul, Minn. 41,473
17	Jersey City, N. J. 120,722	32	Syracuse, N. Y. 51,792
30	Kansas City, Mo. 55,785	35	Toledo, Ohio 50,137
46	Lawrence, Mass. 39,151	64	Trenton, N. J. 29,910
16	Louisville, Ky. 123,758	29	Troy, N. Y. 56,747
27	Lowell, Mass. 59,475	52	Utica, N. Y. 33,914
48	Lynn, Mass. 38,274	14	Wash'gton, D. C. 147,293
56	Manchester, N. H. 32,630	61	Wheeling, W. Va. 30,737
54	Memphis, Tenn. 33,592	42	Wilmington, Del. 42,478
19	Milwaukee, Wis. 115,587	28	Worcester, Mass. 58,291

PRESIDENTS OF THE UNITED STATES.

NO.	NAMES.	Born.	Inaugurated.	Term of Office.	Died.	Native of	Residence when elected.	Political Party.
1	GEORGE WASHINGTON	Feb. 22, 1732	April 30, 1789	8 years.	Dec. 14, 1799	Virginia.	Virginia.	Federal.
2	JOHN ADAMS	Oct. 30, 1735	Mar. 4, 1797	8 "	July 4, 1826	Mass.	Mass.	Republican.
3	THOMAS JEFFERSON	Apr. 2, 1743	" 4, 1801	8 "	July 4, 1826	Virginia.	Virginia.	"
4	JAMES MADISON	Mar. 16, 1751	" 4, 1809	8 "	June 28, 1837	"	Mass.	Coalition.
5	JAMES MONROE	Apr. 28, 1759	" 4, 1817	8 "	Feb. 23, 1848	Mass.	Tennessee.	Democrat.
6	JOHN QUINCY ADAMS	July 11, 1767	" 4, 1825	8 "	June 8, 1845	S. Carolina.	New York.	Whig.
7	ANDREW JACKSON	Mar. 15, 1767	" 4, 1829	8 "	July 24, 1862	Virginia.	Ohio.	Democrat.
8	MARTIN VAN BUREN	Dec. 5, 1783	" 4, 1837	8 "	April 4, 1841	Mass.	Ohio.	Whig.
9	WM. H. HARRISON	Feb. 9, 1773	Mar. 4, 1841	1 month.	Jan. 17, 1862	Virginia.	Tennessee.	Democrat.
10	JOHN TYLER	Mar. 29, 1790	Apr. 6, 1841	3 yrs. 11 mos.	Jan. 15, 1849	N. Carolina.	Virginia.	Whig.
11	JAMES K. POLK	Nov. 2, 1795	Mar. 4, 1845	4 years.	July 9, 1849	Mass.	Mass.	Democrat.
12	ZACHARY TAYLOR	Nov. 24, 1784	Mar. 4, 1849	1 year 4 mos.	Mar. 9, 1850	Virginia.	Mass.	Whig.
13	MILLARD FILLMORE	Jan. 7, 1800	July 9, 1850	2 years 8 mos.	Oct. 8, 1874	New York.	Mass.	Whig.
14	FRANKLIN PIERCE	Nov. 23, 1804	Mar. 4, 1853	4 years.	June 8, 1869	N. Hamp.	Mass.	Democrat.
15	JAMES BUCHANAN	Apr. 23, 1791	" 4, 1857	4 yrs. 40 days.	June 1, 1868	Penn.	Penn.	Democrat.
16	ABRAHAM LINCOLN	Feb. 12, 1809	Apr. 15, 1861	4 yrs. 10 mos.	April 15, 1865	Kentucky.	Illinois.	Republican.
17	ANDREW JOHNSON	Dec. 29, 1808	Mar. 4, 1865	8 years.	July 31, 1865	N. Carolina.	Illinois.	"
18	LYNDES S. GRANT	Apr. 27, 1822	Mar. 4, 1869	8 yrs. 10 mos.	July 23, 1895	Ohio.	Ohio.	"
19	RUTHERFORD B. HAYES	Oct. 4, 1822	" 5, 1877	6 1/2 months.	Sept. 10, 1881	Vermont.	Ohio.	"
20	JAMES A. GARFIELD	Nov. 19, 1831	" 5, 1881	6 1/2 months.	Nov. 19, 1881	Vermont.	Ohio.	"
21	CHESTER A. ARTHUR	Oct. 5, 1830	Sept. 20, 1881	3 yrs. 5 1/2 mos.	Nov. 18, 1886	New Jersey.	New York.	"
22	GROVER CLEVELAND	Mar. 18, 1837	Mar. 4, 1885	3 yrs. 5 1/2 mos.	.....	New Jersey.	New York.	Democrat.

VOTE FOR PRESIDENT—1884.

STATES.	POPULAR VOTE.				ELECTORAL VOTE.	
	Blaine.	Cleveland.	Butler.	St. John.	Cleveland.	Blaine.
Alabama	59591	93951	873	612	10	.....
Arkansas	50895	72927	1847	.....	7	.....
California	102416	89288	2017	2020	.....	8
Colorado	36290	27723	1958	761	.....	3
Connecticut	65923	67199	1688	2305	6	.....
Delaware	12951	16964	6	55	3	.....
Florida	28031	31766	.....	72	4	.....
Georgia	48603	94667	145	195	12	.....
Illinois	337744	312355	10910	12074	.....	22
Indiana	238463	244990	8293	3028	15	.....
Iowa	197089	177316	.....	1472	.....	13
Kansas	154406	90132	16341	4495	.....	9
Kentucky	118122	152961	1691	3139	13	.....
Louisiana	46347	62540	.....	8	.....	.....
Maine	72209	52140	3953	2160	.....	6
Maryland	85699	96932	531	2794	8	.....
Massachusetts	146724	122481	24433	10026	.....	14
Michigan	192669	149835	42243	18403	.....	13
Minnesota	111923	70144	3583	4684	.....	7
Mississippi	43509	76510	.....	9	.....	.....
Missouri	202929	235988	.....	2153	16	.....
Nebraska	76912	54391	.....	2899	.....	5
Nevada	7193	5578	26	.....	.....	3
N. Hampshire	43249	39183	552	1571	.....	4
New Jersey	123440	127798	3496	6159	9	.....
New York	562005	503154	16994	25016	36	.....
N. Carolina	125068	142952	.....	454	11	.....
Ohio	400882	368280	5179	11069	.....	23
Oregon	26860	24604	726	492	.....	3
Pennsylvania	473804	392785	16992	15288	.....	30
Rhode Island	19030	12391	422	928	.....	4
S. Carolina	21733	69890	.....	9	.....	.....
Tennessee	124978	133258	957	1131	12	.....
Texas	93141	225309	3321	3534	13	.....
Vermont	39514	17331	785	1752	.....	4
Virginia	139356	145497	.....	138	12	.....
W. Virginia	63096	67317	810	939	6	.....
Wisconsin	161157	146459	4598	7656	.....	11
Total	4851981	4874986	175370	150369	219	182

PRESIDENTIAL VOTES IN PREVIOUS YEARS.

Year.	POPULAR VOTE.				ELECTORAL.	
	Republican.	Democrat.	Green'b'k.	Prohib.	Rep.	Dem.
1880	4454416	4444952	308578	10305	214	155
1876	4033950	4284757	81737	9522	185	184
*1872	3597070	2834079	.....	5608	286	42
†1868	3015071	2709613	.....	.....	214	71





* Democratic vote, exclusive of 29408 for Chas. O'Connor.

† Mississippi, Texas and Virginia did not vote.

NEW WEATHER SIGNALS.






[Adopted for general use by the United States Signal Service on and after March 1, 1887.]

INTERPRETATION OF SIGNALS.

No. 1. White Flag.	No. 2. Blue Flag.	No. 3. Black Triangular Flag.	No. 4. White Flag, Black Center.
			
Clear or Fair.	Rain or Snow.	Temperature.	Cold Wave.

No. 1, white flag, clear or fair weather, no rain. Number 2, blue flag, rain or snow. Number 3, black triangular flag, refers to temperature, and above numbers 1 or 2, indicates warmer weather; below numbers 1 or 2, colder weather, and when not displayed, stationary weather. Number 4, white flag with black center (cold-wave flag) sudden fall in temperature; this signal is usually ordered at least twenty-four hours in advance of the cold wave. It is not displayed unless a temperature of forty-five degrees, or less, is expected, nor is flag number 3 ever displayed with it.

DISPLAY EXAMPLES.

			
Fair Weather, Colder.	Warmer, Rain or Snow.		Fair Weather, Cold Wave.
			
	Warmer, Fair Weather, followed by Rain or Snow.		

THE SEASONS.

	Eastern Standard.	Central Standard.
Vernal Equinox,	Mar. 19, 11h. A.	Mar. 19, 10h. A.
Summer Solstice,	June 20, 7h. A.	June 20, 6h. A.
Autumnal Equinox,	Sept. 22, 10h. M.	Sept. 22, 9h. M.
Winter Solstice,	Dec. 21, 4h. M.	Dec. 21, 3h. M.
	Mountain Standard.	Pacific Standard.
Vernal Equinox,	Mar. 19, 9h. A.	Mar. 19, 8h. A.
Summer Solstice,	June 20, 5h. A.	June 20, 4h. A.
Autumnal Equinox,	Sept. 22, 8h. M.	Sept. 22, 7h. M.
Winter Solstice,	Dec. 21, 2h. M.	Dec. 21, 1h. M.

INTEREST LAWS OF ALL THE STATES.

STATES AND TERRITORIES.	PENALTY OF USURY.	Legal.	Special.
Alabama	Loss of interest	8	.....
Arizona	No Penalty	10	No limit.
Arkansas	Forfeiture of principal & interest.	6	10 per ct.
California	No penalty	7	No limit.
Colorado	No penalty	10	No limit.
Connecticut	No penalty	6	6 per ct.
Dakota	Forfeiture of contract	7	12 per ct.
Delaware	Forfeiture of contract	6	6 per ct.
District of Col.	Forfeiture of all interest	6	10 per ct.
Florida	No penalty	8	No limit.
Georgia	Forfeiture of excess	7	8 per ct.
Idaho	Forfeiture of 3 times excess of int.	10	18 per ct.
Illinois	Forfeiture of all interest	6	8 per ct.
Indiana	Forfeiture of int. over 6 per cent.	6	8 per ct.
Iowa	Forfeiture of interest and costs.	6	10 per ct.
Kansas	Forfeiture of excess over 12 per cent.	7	12 per ct.
Kentucky	Forfeiture of excess	6	6 per ct.
Louisiana	Forfeiture of interest	5	8 per ct.
Maine	No penalty	6	No limit.
Maryland	Forfeiture of excess	6	6 per ct.
Massachusetts	No penalty—6 per ct. on judgments.	6	No limit.
Michigan	Forfeiture of excess	7	10 per ct.
Minnesota	Forfeiture of contract	7	10 per ct.
Mississippi	Forfeiture of all interest	6	10 per ct.
Missouri	Forfeiture of all interest	6	10 per ct.
Montana	No penalty	10	No limit.
Nebraska	Forfeiture of all interest & costs.	7	10 per ct.
Nevada	No penalty	10	No limit.
New Hampshire	Forfeiture of 3 times excess of int.	6	6 per ct.
New Jersey	Forfeiture of all interest	6	6 per ct.
New Mexico	No penalty	6	12 per ct.
New York	Forfeiture of contract.*	6	6 per ct.
North Carolina	Forfeiture of double amount of int.	6	8 per ct.
Ohio	Forfeiture of excess	6	8 per ct.
Oregon	Forfeiture of prin., int. & costs.	8	10 per ct.
Pennsylvania	Forfeiture of excess, Act of 1853.	6	6 per ct.
Rhode Island	Forfeiture, unless by contract.	6	No limit.
South Carolina	Forfeiture of interest	7	10 per ct.
Tennessee	Forfeiture of over 6 per cent.	6	6 per ct.
Texas	Forfeiture of interest	8	12 per ct.
Utah	No penalty	10	No limit.
Vermont	Forfeiture of excess	6	7 per ct.
Virginia	Forfeiture of excess	6	6 per ct.
Washington	No penalty	10	No limit.
West Virginia	Forfeiture of excess	6	6 per ct.
Wisconsin	Forfeiture of all interest	7	10 per ct.
Wyoming	No penalty	12	No limit.

* Also punishable as a misdemeanor. Banks forfeit interest only, or double the interest if charged in advance.

† Also 6 per cent. on judgments.

VALUES IN UNITED STATES MONEY

OF THE

PURE GOLD OR SILVER

REPRESENTING RESPECTIVELY THE MONETARY UNITS
AND STANDARD COINS OF FOREIGN COUNTRIES.

The first section of the Act of March 3, 1873, provides "that the value of Foreign Coin, as expressed in the money of account of the United States, shall be that of the pure metal of such coin of standard value," and that "the values of the standard coins in circulation of the various nations of the world shall be estimated annually by the Director of the Mint, and be proclaimed on the first day of January by the Secretary of the Treasury."

The estimates of values contained in the following table are those made by the Director of the Mint, January 1st, 1887, in compliance with the above stated provisions of law.

COUNTRY.	MONETARY UNIT.	STANDARD.	VALUE.
			D. C. M.
Argentina Repub.	Peso	Gold & silv.	0 96 5
Austria	Florin	Silver	0 35 9
Austria	Florin	Gold	0 48 4
Belgium	Franc	Gold & silv.	0 19 3
Bolivia	Boliviano	Silver	0 72 7
Brazil	Milreis of 1000 reis.	Gold	0 54 6
British America.	Dollar	Gold	1 00 0
Central America.	Dollar	Silver	0 93 5
Chili	Peso	Gold & silv.	0 91 2
Cuba	Peso	Gold & silv.	0 93 2
Denmark	Crown	Gold	0 26 8
Ecuador	Sucre	Silver	0 72 7
Egypt	Piaster	Gold	0 4 9
France	Franc	Gold & silv.	0 19 3
German Empire.	Mark	Gold	0 23 8
Great Britain....	Pound sterling....	Gold	4 86 6½
Greece	Drachma	Gold & silv.	0 19 3
Hayti	Gourde	Gold & silv.	0 96 5
India	Ruppee of 16 annas.	Silver	0 34 6
Italy	Lira	Gold & silv.	0 19 3
Japan	Yen	Gold	0 99 7
Japan	Yen	Silver	0 78 4
Liberia	Dollar	Gold	1 00 0
Mexico	Dollar	Silver	0 79 0
Netherlands	Florin	Gold & silv.	0 40 2
Norway	Crown	Gold	0 26 8
Peru	Sol	Silver	0 72 7
Porto Rico	Peso	Gold	0 92 5
Portugal	Milreis of 1000 reis.	Gold	1 00 8
Russia	Roubl. of 100 cop'ks	Silver	0 58 2
Sandwich Islands	Dollar	Gold	1 00 0
Spain	Pseta of 100 centim.	Gold & silv.	0 19 3
Sweden	Crown	Gold	0 26 8
Switzerland	Franc	Gold & silv.	0 19 3
Tripoli	Mahbub of 20piast's	Silver	0 65 6
Turkey	Piaster	Gold	0 4 4
U. S. of Colombia	Peso	Silver	0 72 7
Uruguay	Patacon	Gold	0 94 8
Venezuela	Bolivar	Gold & silv.	0 19 3

BUSINESS LAW IN DAILY USE.

The following compilation of business law contains the essence of a large amount of legal verbiage:

If a note is lost or stolen, it does not release the maker; he must pay it, if the consideration for which it was given and the amount can be proven.

Notes bear interest only when so stated.

Principals are responsible for the acts of their agents.

Each individual in a partnership is responsible for the whole amount of the debts of the firm, except in cases of special partnership.

Ignorance of the law excuses no one.

The law compels no one to do impossibilities.

An agreement without consideration is void.

A note made on Sunday is void.

Contracts made on Sunday cannot be enforced.

A note by a minor is void.

A contract made with a minor is void.

A contract made with a lunatic is void.

A note obtained by fraud, or from a person in a state of intoxication, cannot be collected.

It is a fraud to conceal a fraud.

Signatures made with a lead pencil are good in law.

A receipt for money is not always conclusive.

The acts of one partner bind all the rest.

"Value received" is usually written in a note, and should be, but is not necessary. If not written it is presumed by the law, or may be supplied by proof.

The maker of an "accommodation" bill or note (one for which he has received no consideration, having lent his name or credit for the accommodation of the holder) is not bound to the person accommodated, but is bound to all other parties, precisely as if there was a good consideration.

No consideration is sufficient in law if it be illegal in its nature.

Checks or drafts must be presented for payment without unreasonable delay.

Checks or drafts should be presented during business hours, but in this country, except in the case of banks, the time extends through the day and evening.

If the drawee of a check or draft has changed his residence, the holder must use due or reasonable diligence to find him.

If one who holds a check as payee or otherwise, transfers it to another, he has a right to insist that the check be presented that day, or, at farthest, on the day following.

A note indorsed in blank (the name of the indorser only written) it is transferable by delivery, the same as if made payable to bearer.

If the time of payment of a note is not inserted, it is held payable on demand.

SHORT METHOD

FOR CALCULATING INTEREST.

Multiply the principal by as many hundreds as there are days, and

For 4 per cent.	Divide by 90
" 5 " "	" " 72
" 6 " "	" " 60
" 7 " "	" " 52
" 8 " "	" " 45
" 9 " "	" " 40
" 10 " "	" " 36
" 12 " "	" " 30

EXAMPLE.—INTEREST ON \$50 for 30 days at 4%.
 $50 \times .30 = 15.00$, which divided by 90 = $16\frac{2}{3}$ cents—the required result.

FESTIVALS AND FASTS.

Epiphany	Jan. 6
Septuagesima Sunday	Jan. 29
Quinquagesima—Shrove Sunday	Feb. 12
Ash Wednesday	Feb. 15
First Sunday in Lent	Feb. 19
St. Patrick	Mar. 17
Palm Sunday	Mar. 25
Good Friday	Mar. 30
Easter Sunday	April 1
Low Sunday	April 8
Rogation Sunday	May 6
Ascension Day—Holy Thursday	May 10
Pentecost—Whit Sunday	May 20
Trinity Sunday	May 27
Corpus Christi	May 31
St. John Baptist	June 24
Michaelmas Day	Sept. 29
St. Andrew	Nov. 30
First Sunday in Advent	Dec. 2
Christmas Day	Dec. 25

CHRONOLOGICAL CYCLES.

Dominical Letters	A. G.
Epact	17
Lunar Cycle, or Golden Number	8
Solar Cycle	21
Roman Indiction	1
Julian Period	6601

ECLIPSES FOR THE YEAR.

In the year 1888 there will be five Eclipses; three of the Sun and two of the Moon.

I. A TOTAL ECLIPSE OF THE MOON, January 28.
 Visible more or less to the world generally, except to the Pacific Ocean. Occurring as follows:—

	Eastern Standard.	Central Standard.	Mountain Standard.
	D. H. M.	D. H. M.	D. H. M.
Moon enters Penumbra	28 3 27 A.	28 2 27 A.	28 1 27 A.
Moon enters Shadow...	28 4 30 "	28 3 30 "	28 2 30 "
Total Eclipse begins...	28 5 31 "	28 4 31 "	28 3 31 "
Middle of Eclipse	28 6 20 "	28 5 20 "	28 4 20 "
Total Eclipse ends.....	28 7 9 "	28 6 9 "	28 5 9 "
Moon leaves Shadow...	28 8 9 "	28 7 9 "	28 6 9 "
Moon leaves Penumbra	28 9 12 "	28 8 12 "	28 7 12 "

Magnitude of Eclipse = 1.647; (Moon's diameter = 1).

II. A PARTIAL ECLIPSE OF THE SUN, February 11.
 Invisible. Visible to the Antarctic Ocean and southern Patagonia.

III. A PARTIAL ECLIPSE OF THE SUN, July 9. In-
 visible. Visible to the southern Indian Ocean.

IV. A TOTAL ECLIPSE OF THE MOON, July 22–23.
 Visible to the larger part of the world, except eastern Europe and Asia. Happening as follows:—

	Eastern Standard.	Central Standard.	Mountain Standard.
	D. H. M.	D. H. M.	D. H. M.
Moon enters Penumbra	22 9 55 A.	22 8 55 A.	22 7 55 A.
Moon enters Shadow...	22 10 54 "	22 9 54 "	22 8 54 "
Total Eclipse begins...	22 11 53 "	22 10 53 "	22 9 53 "
Middle of Eclipse.....	23 0 45 M.	22 11 45 "	22 10 45 "
Total Eclipse ends...	23 1 36 "	23 0 36 M.	22 11 36 "
Moon leaves Shadow...	23 2 35 "	23 1 35 "	23 0 35 M.
Moon leaves Penumbra	23 3 34 "	23 2 34 "	23 1 34 "

Magnitude of Eclipse = 1.825; (Moon's diameter = 1.)

V. A PARTIAL ECLIPSE OF THE SUN, August 7. In-
 visible. Visible to the Arctic Ocean and adjacent regions, including Norway and Sweden.

MORNING AND EVENING STARS.

MERCURY will be Evening Star about February 17, June 12, and October 7; and Morning Star about March 30, July 29, and November 17.

VENUS will be Morning Star till July 11; and Evening Star the rest of the year.

JUPITER will be Morning Star till May 22; then Evening Star till December 8; and Morning Star again the rest of the year.

TIDE TABLE

(The following values are derived from late determinations of the United States Coast Survey.)

To find the time (Standard Time) of High Water at any of the following places, add or subtract the hours and minutes opposite the name of place in the following Table, to or from the hours and minutes of High Water at NEW YORK for the required day, as found in the *Calendar Page*.

	h.	m.	Mean Range.
Eastport, Me., (Intercolonial Time) ...	add	3 33	18.2
EASTERN STANDARD.			
Bar Harbor, Me.	"	2 27	10.4
Rockland, Me.	"	2 35	9.6
Thomaston, Me.	"	2 45	9.4
Portland, Me.	"	2 55	9.1
Bath, Me.	"	3 49	6.1
Portsmouth, N. H.	"	3 3	8.6
Isles of Shoals, N. H.	"	2 57	8.7
Newburyport, Mass.	"	3 17	7.5
Gloucester, Mass.	"	2 44	8.9
Salem, Mass.	"	2 54	9.2
Nahant, Mass.	"	2 50	9.4
Plymouth, Mass.	"	2 59	10.2
Provincetown, Mass.	"	2 59	9.2
Edgartown, Mass.	"	3 55	2.0
Nantucket, Mass.	"	4 15	3.0
Vineyard Haven, Mass.	"	3 22	1.6
Wood's Hole, North Side, Mass.	sub.	0 21	4.0
Wood's Hole, South Side, Mass.	add	0 14	1.6
New Bedford Entrance (Dumpling Rock), Mass. }	sub.	0 20	3.7
Newport, R. I.	"	0 33	3.9
Bristol, R. I.	"	0 13	4.7
Point Judith, R. I.	"	0 45	3.1
Sandy Hook, N. J.	"	0 36	4.7
Watch Hill, R. I.	add	0 44	2.7
Stonington, Conn.	"	0 52	2.7
New London, Conn.	"	1 12	2.5
New Haven, Conn.	"	2 57	6.0
Bridgeport, Conn.	"	3 1	6.5
Montauk Point, L. I.	"	0 4	1.9
Throg's Neck, N. Y.	"	3 12	7.3
Cape May Landing, N. J.	"	0 16	4.8
Newcastle, Del.	"	3 52	6.5
Philadelphia, Penn.	"	5 42	6.0
Annapolis, Md.	sub.	3 19	0.9
Baltimore, Md.	"	1 24	1.3
Richmond, Va.	"	3 25	3.6
Hatteras Inlet, N. C.	"	0 50	2.0
Beaufort, N. C.	"	0 35	2.8
Charleston (C. H. Wharf), S. C.	"	0 19	5.1
CENTRAL STANDARD.			
Fort Pulaski (Savannah Ent.), Ga.	"	1 22	6.9
Savannah (Dry Dock Wharf), Ga.	"	0 25	6.5
St. Augustine, Fla.	"	0 17	4.1
Key West, Fla.	add	1 4	1.2
Tampa Bay (Egmont Key), Fla.	"	2 49	1.2
Cedar Keys (Depot Key), Fla.	"	4 52	1.9



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
LAST QUARTER...	6d. 6h. 42m. M.	6d. 5h. 42m. M.
NEW MOON.....	13d. 3h. 38m. M.	13d. 2h. 38m. M.
FIRST QUARTER...	20d. 11h. 49m. A.	20d. 10h. 49m. A.
FULL MOON.....	28d. 6h. 19m. A.	28d. 5h. 19m. A.

BOST'N & CHICAGO.				BOST.	N. Y. & PHILA.				N. Y.
Local Mean Time.				TIDE.	Local Mean Time.				TIDE.
D. of M.	Day of W'k.	SUN R.&S.	MOON R.&S.	Stand- ard Time.	D. of M.	SUN R.&S.	MOON R.&S.	Stand- ard Time.	
1	S	17 30	7 14	0 26	1	17 25	7 18	9 47	
2	Mo.	14 39	8 21	1 12	2	14 44	8 24	10 32	
3	Tu.	17 30	9 30	1 59	3	17 25	9 32	11 17	
4	We.	14 41	10 40	2 47	4	14 41	10 41	.....
5	Th.	17 30	11 50	3 36	5	17 25	11 50	0 35	
6	Fr.	14 43	morn	4 30	6	14 48	morn	1 28	
7	Sa.	17 30	1 0	5 30	7	17 25	0 59	2 29	
8	S	14 45	2 11	6 33	8	14 50	2 9	3 32	
9	Mo.	17 29	3 22	7 37	9	17 24	3 19	4 33	
10	Tu.	14 47	4 32	8 38	10	14 52	4 28	5 36	
11	We.	17 29	5 39	9 38	11	17 24	5 34	6 36	
12	Th.	14 49	6 39	10 33	12	14 54	6 34	7 29	
13	Fr.	17 28	sets.	11 22	13	17 23	sets.	8 17	
14	Sa.	14 51	6 26	.....	14	14 56	6 30	9 6	
15	S	17 27	7 29	0 30	15	17 23	7 32	9 51	
16	Mo.	14 54	8 31	1 15	16	14 58	8 33	10 32	
17	Tu.	17 26	9 32	1 57	17	17 22	9 33	11 12	
18	We.	14 56	10 32	2 38	18	15 1	10 32	11 54	
19	Th.	17 25	11 30	3 18	19	17 21	11 29	0 16	
20	Fr.	14 59	morn	4 1	20	15 3	morn	1 0	
21	Sa.	17 24	0 27	4 47	21	17 20	0 26	1 46	
22	S	15 1	1 25	5 38	22	15 5	1 23	2 36	
23	Mo.	17 23	2 24	6 31	23	17 18	2 21	3 29	
24	Tu.	15 3	3 23	7 27	24	15 8	3 19	4 23	
25	We.	17 21	4 21	8 22	25	17 17	4 17	5 18	
26	Th.	15 6	5 18	9 16	26	15 10	5 13	6 14	
27	Fr.	17 20	6 12	10 9	27	17 15	6 7	7 6	
28	Sa.	15 8	rises.	10 59	28	15 12	rises.	7 53	
29	S	17 18	6 8	11 45	29	17 14	6 11	8 41	
30	Mo.	15 11	7 18	0 8	30	15 15	7 20	9 30	
31	Tu.	17 16	8 29	0 54	31	17 12	8 30	10 14	



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
LAST QUARTER...	4d. 2h. 26m. A.	4d. 1h. 26m. A.
NEW MOON.....	11d. 6h. 52m. A.	11d. 5h. 52m. A.
FIRST QUARTER..	19d. 8h. 59m. A.	19d. 7h. 59m. A.
FULL MOON.....	27d. 6h. 57m. M.	27d. 5h. 57m. M.

BOST'N & CHICAGO.				BOST.		N. Y. & PHILA.		N. Y.
D. of M.	Day of W'k.	Local Mean Time.		TIDE.	Standard Time.	Local Mean Time.		TIDE.
		SUN R.&S.	MOON R.&S.			SUN R.&S.	MOON R.&S.	
1	WE.	7 15	9 40	1 40		1 7 11	9 40	10 57
2	TH.	5 15	10 51	2 26		2 5 18	10 50	11 47
3	FR.	7 13	morn	3 15		3 7 9	11 59	0 13
4	SA.	5 18	0 1	4 7		4 5 21	morn	1 6
5	S	7 10	1 11	5 7		5 7 7	1 8	2 6
6	MO.	5 20	2 21	6 13		6 5 23	2 17	3 10
7	TU.	7 8	3 28	7 19		7 7 5	3 24	4 16
8	WE.	5 23	4 29	8 24		8 5 26	4 24	5 21
9	TH.	7 6	5 24	9 23		9 7 2	5 19	6 20
10	FR.	5 25	6 13	10 16		10 5 28	6 9	7 13
11	SA.	7 3	sets.	11 4		11 7 0	sets.	7 58
12	S	5 28	6 17	11 45		12 5 31	6 20	8 41
13	MO.	7 0	7 18	0 5		13 7 58	7 20	9 23
14	TU.	5 31	8 18	0 45		14 5 33	8 19	10 2
15	WE.	7 58	9 17	1 23		15 7 55	9 17	10 37
16	TH.	5 33	10 15	2 1		16 5 36	10 14	11 14
17	FR.	7 55	11 13	2 38		17 7 53	11 11	11 55
18	SA.	5 36	morn	3 18		18 5 38	morn	0 16
19	S	7 52	0 11	4 3		19 7 50	0 8	1 2
20	MO.	5 38	1 10	4 52		20 5 40	1 6	1 51
21	TU.	7 49	2 8	5 49		21 7 47	2 4	2 47
22	WE.	5 41	3 5	6 48		22 5 43	3 0	3 45
23	TH.	7 46	3 59	7 49		23 7 44	3 54	4 45
24	FR.	5 43	4 50	8 49		24 5 45	4 45	5 46
25	SA.	7 43	5 37	9 45		25 7 41	5 33	6 43
26	S	5 46	6 18	10 37		26 5 48	6 15	7 33
27	MO.	7 40	rises.	11 24		27 7 38	rises.	8 18
28	TU.	5 48	7 22		28 5 50	7 23	9 7
29	WE.	7 37	8 36	0 32		29 7 35	8 36	9 53
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MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
LAST QUARTER...	4d. 10h. 26m. A.	4d. 9h. 26m. A.
NEW MOON.....	12d. 11h. 21m. M.	12d. 10h. 21m. M.
FIRST QUARTER..	20d. 3h. 43m. A.	20d. 2h. 43m. A.
FULL MOON.....	27d. 5h. 7m. A.	27d. 4h. 7m. A.

BOST'N & CHICAGO.				BOST.		N. Y. & PHILA.		N. Y.
D. of M.	Day of W'k.	Local Mean Time.		TIDE.	Standard Time.	Local Mean Time.		TIDE.
		SUN R.&S.	MOON R.&S.			SUN R.&S.	MOON R.&S.	
1	TH.	7 35	9 50	1 18		1 7 34	9 48	10 37
2	FR.	5 52	11 3	2 6		2 5 53	11 0	11 25
3	SA.	7 32	morn	2 55		3 7 31	morn	....
4	S	5 54	0 14	3 49		4 5 55	0 10	0 48
5	MO.	7 28	1 22	4 50		5 7 28	1 18	1 49
6	TU.	5 57	2 25	5 57		6 5 57	2 20	2 55
7	WE.	7 25	3 21	7 4		7 7 24	3 16	4 2
8	TH.	5 59	4 10	8 8		8 5 6	4 6	5 5
9	FR.	7 22	4 53	9 5		9 7 21	4 49	6 3
10	SA.	5 6	5 30	9 54		10 5 6	5 27	6 52
11	S	7 18	6 3	10 39		11 7 18	6 1	7 34
12	MO.	5 6	sets.	11 18		12 5 6	sets.	8 13
13	TU.	7 15	7 7	11 54		13 7 15	7 7	8 52
14	WE.	5 6	8 7	0 12		14 5 6	8 6	9 29
15	TH.	7 12	9 5	0 49		15 7 11	9 3	10 5
16	FR.	5 8	10 2	1 26		16 5 8	9 59	10 39
17	SA.	7 8	11 0	2 3		17 7 8	10 57	11 17
18	S	5 10	11 58	2 43		18 5 11	11 54	....
19	MO.	7 5	morn	3 26		19 7 5	morn	0 24
20	TU.	5 13	0 54	4 16		20 5 13	0 49	1 15
21	WE.	7 1	1 48	5 13		21 7 1	1 43	2 11
22	TH.	5 15	2 39	6 14		22 5 15	2 34	3 12
23	FR.	7 58	3 27	7 18		23 7 58	3 23	4 15
24	SA.	5 17	4 10	8 21		24 5 17	4 6	5 17
25	S	7 54	4 49	9 19		25 7 55	4 46	6 17
26	MO.	5 19	5 25	10 12		26 5 19	5 23	7 9
27	TU.	7 51	rises.	11 1		27 7 51	rises.	7 54
28	WE.	5 22	7 28	11 45		28 5 21	7 27	8 42
29	TH.	7 47	8 43	0 8		29 7 48	8 41	9 30
30	FR.	5 24	9 58	0 56		30 5 23	9 55	10 17
31	SA.	7 44	11 11	1 45		31 7 45	11 7	11 5



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
LAST QUARTER...	3d. 7h. 41m. M.	3d. 6h. 41m. M.
NEW MOON.....	11d. 4h. 8m. M.	11d. 3h. 8m. M.
FIRST QUARTER...	19d. 6h. 52m. M.	19d. 5h. 52m. M.
FULL MOON.....	26d. 1h. 22m. M.	26d. 0h. 22m. M.

BOST'N & CHICAGO.				BOST.	N. Y. & PHILA.				N. Y.
D. of M.	Day of W'k.	Local Mean Time.		TIDE.	D. of M.	Local Mean Time.		TIDE.	TIDE.
		SUN R. & S.	MOON R. & S.			SUN R. & S.	MOON R. & S.		
1	S	75 42	morn	2 38	1	75 43	morn	.....
2	Mo.	76 27	0 18	3 33	2	76 26	0 13	0 32	
3	Tu.	75 39	1 18	4 35	3	75 40	1 13	1 34	
4	We.	76 30	2 10	5 41	4	76 28	2 5	2 39	
5	Th.	75 35	2 54	6 35	5	75 36	2 50	3 43	
6	Fr.	76 32	3 32	7 46	6	76 30	3 29	4 42	
7	Sa.	75 32	4 6	8 39	7	75 33	4 3	5 36	
8	S	76 34	4 36	9 26	8	76 32	4 34	6 24	
9	Mo.	75 28	5 3	10 9	9	75 30	5 2	7 6	
10	Tu.	76 36	5 30	10 48	10	76 34	5 30	7 42	
11	We.	75 25	sets.	11 23	11	75 27	sets.	8 18	
12	Th.	76 38	7 55	11 59	12	76 37	7 53	8 56	
13	Fr.	75 22	8 53	0 17	13	75 28	8 50	9 33	
14	Sa.	76 41	9 51	0 53	14	76 39	9 47	10 9	
15	S	75 19	10 48	1 33	15	75 21	10 44	10 48	
16	Mo.	76 43	11 43	2 14	16	76 41	11 38	11 31	
17	Tu.	75 15	morn	2 59	17	75 18	morn	.....
18	We.	76 45	0 34	3 47	18	76 43	0 29	0 46	
19	Th.	75 12	1 22	4 44	19	75 15	1 17	1 43	
20	Fr.	76 47	2 6	5 46	20	76 45	2 2	2 44	
21	Sa.	75 9	2 45	6 50	21	75 12	2 42	3 47	
22	S	76 50	3 21	7 51	22	76 47	3 19	4 47	
23	Mo.	75 6	3 55	8 50	23	75 9	3 54	5 47	
24	Tu.	76 52	4 28	9 45	24	76 49	4 28	6 43	
25	We.	75 3	5 1	10 36	25	75 6	5 2	7 32	
26	Th.	76 54	rises.	11 24	26	76 51	rises.	8 18	
27	Fr.	75 0	8 48	.....	27	75 3	8 44	9 10	
28	Sa.	76 56	10 1	0 37	28	76 53	9 57	10 1	
29	S	74 58	11 7	1 29	29	75 11	2 10	50	
30	Mo.	76 59	morn	2 22	30	76 55	morn	11 46	



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
LAST QUARTER...	2d. 6h. 47m. A.	2d. 5h. 47m. A.
NEW MOON.....	10d. 8h. 23m. A.	10d. 7h. 23m. A.
FIRST QUARTER...	18d. 6h. 5m. A.	18d. 5h. 5m. A.
FULL MOON.....	25d. 8h. 40m. M.	25d. 7h. 40m. M.

BOST'N & CHICAGO.				BOST.	N. Y. & PHILA.				N. Y.
D. of M.	Day of W'k.	Local Mean Time.		TIDE.	D. of M.	Local Mean Time.		TIDE.	TIDE.
		SUN R. & S.	MOON R. & S.			SUN R. & S.	MOON R. & S.		
1	Tu.	74 55	0 5	3 17	1	74 58	0 0	0 15	
2	We.	75 1	0 54	4 16	2	76 57	0 50	1 15	
3	Th.	74 52	1 35	5 17	3	74 56	1 31	2 15	
4	Fr.	75 3	2 10	6 17	4	76 59	2 7	3 14	
5	Sa.	74 49	2 40	7 13	5	74 53	2 38	4 10	
6	S	75 5	3 8	8 4	6	7 2	3 7	5 2	
7	Mo.	74 47	3 35	8 33	7	74 51	3 35	5 48	
8	Tu.	75 7	4 1	9 33	8	7 4	4 2	6 31	
9	We.	74 45	4 27	10 15	9	74 49	4 29	7 11	
10	Th.	75 9	4 53	10 53	10	7 6	4 55	7 47	
11	Fr.	74 44	sets.	11 29	11	74 46	sets.	8 24	
12	Sa.	75 12	8 43	.....	12	7 8	8 39	9 5	
13	S	74 40	9 39	0 27	13	74 44	9 34	9 46	
14	Mo.	75 14	10 31	1 9	14	7 9	10 26	10 26	
15	Tu.	74 38	11 20	1 52	15	74 42	11 15	11 9	
16	We.	75 16	morn	2 38	16	7 11	morn	11 58	
17	Th.	74 36	0 4	3 26	17	74 41	0 0	0 24	
18	Fr.	75 18	0 44	4 20	18	7 13	0 40	1 19	
19	Sa.	74 34	1 20	5 19	19	74 39	1 17	2 17	
20	S	75 20	1 53	6 20	20	7 15	1 51	3 18	
21	Mo.	74 32	2 25	7 22	21	74 37	2 24	4 19	
22	Tu.	75 22	2 58	8 21	22	7 17	2 58	5 17	
23	We.	74 31	3 30	9 17	23	74 36	3 32	6 15	
24	Th.	75 24	4 7	10 13	24	7 18	4 10	7 10	
25	Fr.	74 29	rises.	11 5	25	74 34	rises.	7 58	
26	Sa.	75 25	8 48	11 54	26	7 20	8 43	8 52	
27	S	74 28	9 50	0 21	27	74 33	9 47	9 46	
28	Mo.	75 27	10 46	1 14	28	7 22	10 41	10 35	
29	Tu.	74 27	11 32	2 6	29	74 32	11 28	11 27	
30	We.	75 29	morn	2 58	30	7 23	morn	.....
31	Th.	74 26	0 10	3 50	31	74 31	0 7	0 49	



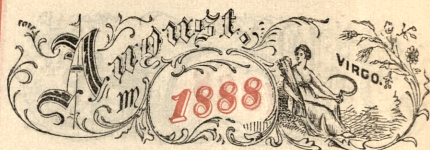
MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
LAST QUARTER...	1d. 7h. 53m. M.	1d. 6h. 53m. M.
NEW MOON.....	9d. 11h. 34m. M.	9d. 10h. 34m. M.
FIRST QUARTER..	17d. 1h. 50m. M.	17d. 0h. 50m. M.
FULL MOON.....	23d. 4h. 7m. A.	23d. 3h. 7m. A.
LAST QUARTER...	30d. 10h. 52m. A.	30d. 9h. 52m. A.

BOST'N & CHICAGO.				BOST.	N. Y. & PHILA.				N. Y.
D.of M.	Day of W'k.	Local Mean Time.		Stand- ard Time.	TIDE.	D.of M.	Local Mean Time.		Stand- ard Time.
		SUN R.&S.	MOON R.&S.				SUN R.&S.	MOON R.&S.	
1	FR.	74 25	0 43	4 44		1	74 31	0 40	1 43
2	SA.	75 31	1 12	5 38		2	75 26	1 10	2 36
3	S	74 25	1 39	6 31		3	74 30	1 38	3 28
4	MO.	75 32	2 5	7 22		4	75 27	2 5	4 19
5	TU.	74 24	2 30	8 10		5	74 29	2 31	5 7
6	WE.	75 34	2 56	8 55		6	75 28	2 58	5 53
7	TH.	74 23	3 25	9 39		7	74 29	3 28	6 37
8	FR.	75 35	3 57	10 22		8	75 29	4 1	7 18
9	SA.	74 23	sets.	11 3		9	74 28	sets.	7 57
10	S	75 36	8 28	11 44		10	75 30	8 23	8 40
11	MO.	74 22	9 18	0 5		11	74 28	9 13	9 25
12	TU.	75 37	10 5	0 49		12	75 31	10 0	10 7
13	WE.	74 22	10 47	1 33		13	74 28	10 43	10 50
14	TH.	75 38	11 23	2 19		14	75 32	11 20	11 38
15	FR.	74 22	11 56	3 6		15	74 28	11 54	0 3
16	SA.	75 38	morn	3 55		16	75 33	morn	0 54
17	S	74 22	0 28	4 50		17	74 28	0 27	1 48
18	MO.	75 39	0 59	5 50		18	75 34	0 59	2 48
19	TU.	74 23	1 30	6 52		19	74 28	1 31	3 49
20	WE.	75 40	2 3	7 55		20	75 34	2 5	4 51
21	TH.	74 23	2 40	8 55		21	74 29	2 43	5 52
22	FR.	75 40	3 23	9 53		22	75 35	3 27	6 51
23	SA.	74 24	rises.	10 49		23	74 29	rises.	7 44
24	S	75 40	8 32	11 41		24	75 35	8 27	8 37
25	MO.	74 24	9 23	0 7		25	74 30	9 19	9 30
26	TU.	75 40	10 7	0 57		26	75 35	10 3	10 18
27	WE.	74 25	10 44	1 46		27	74 31	10 41	11 4
28	TH.	75 40	11 15	2 33		28	75 35	11 13	11 52
29	FR.	74 26	11 42	3 18		29	74 31	11 41	0 16
30	SA.	75 40	morn	4 4		30	75 35	morn	1 3
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MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
NEW MOON.....	9d. 1h. 16m. M.	9d. 0h. 16m. M.
FIRST QUARTER..	16d. 7h. 13m. M.	16d. 6h. 13m. M.
FULL MOON.....	23d. 0h. 45m. M.	22d. 11h. 45m. A.
LAST QUARTER...	30d. 3h. 29m. A.	30d. 2h. 29m. A.

BOST'N & CHICAGO.					Bost.	N. Y. & PHILA.					N. Y.
D.of M.	Day of W'k.	Local Mean Time.			Stand- ard Time.	TIDE.	D.of M.	Local Mean Time.			TIDE.
		SUN R.&S.	MOON R.&S.					SUN R.&S.	MOON R.&S.		
1	S	74 27	0 8	4 53			1	74 32	0 8	1 52	
2	Mo.	75 40	0 34	5 44			2	75 34	0 35	2 42	
3	Tu.	74 28	1 0	6 34			3	74 33	1 2	3 32	
4	We.	75 40	1 27	7 26			4	75 34	1 30	4 22	
5	Th.	74 29	1 57	8 16			5	74 35	2 0	5 13	
6	Fr.	75 39	2 32	9 5			6	75 33	2 36	6 3	
7	Sa.	74 30	3 12	9 53			7	74 36	3 17	6 51	
8	S	75 38	3 56	10 40			8	75 33	4 1	7 35	
9	Mo.	74 32	sets.	11 23			9	74 38	sets.	8 19	
10	Tu.	75 37	8 46	....			10	75 32	8 42	9 5	
11	We.	74 33	9 24	0 29			11	74 39	9 21	9 50	
12	Th.	75 36	9 59	1 15			12	75 31	9 56	10 33	
13	Fr.	74 35	10 31	2 0			13	74 40	10 29	11 16	
14	Sa.	75 35	11 2	2 44			14	75 30	11 1	....
15	S	74 36	11 33	3 32			15	74 41	11 34	0 30	
16	Mo.	75 34	morn	4 24			16	75 29	morn	1 23	
17	Tu.	74 38	0 5	5 23			17	74 43	0 7	2 21	
18	We.	75 32	0 39	6 26			18	75 28	0 42	3 24	
19	Th.	74 40	1 18	7 33			19	74 45	1 22	4 29	
20	Fr.	75 31	2 3	8 38			20	75 26	2 7	5 36	
21	Sa.	74 42	2 55	9 39			21	74 46	3 0	6 37	
22	S	75 29	3 53	10 36			22	75 25	3 58	7 32	
23	Mo.	74 44	rises.	11 26			23	74 48	rises.	8 20	
24	Tu.	75 28	8 38	....			24	75 23	8 35	9 12	
25	We.	74 45	9 12	0 36			25	74 50	9 10	9 56	
26	Th.	75 26	9 42	1 20			26	75 21	9 41	10 36	
27	Fr.	74 47	10 10	2 2			27	74 52	10 9	11 16	
28	Sa.	75 23	10 36	2 42			28	75 19	10 36	....
29	S	74 49	11 2	3 23			29	74 54	11 3	0 22	
30	Mo.	75 21	11 29	4 7			30	75 17	11 31	1 7	
31	Tu.	74 51	11 58	4 56			31	74 56	morn	1 54	



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
NEW MOON.....	7d. 1h. 21m. A.	7d. 0h. 21m. A.
FIRST QUARTER...	14d. 11h. 44m. M.	14d. 10h. 44m. M.
FULL MOON.....	21d. 11h. 20m. M.	21d. 10h. 20m. M.
LAST QUARTER...	29d. 9h. 18m. M.	29d. 8h. 18m. M.

BOST'N & CHICAGO.	BOST. TIDE.	N. Y. & PHILA. Local Mean Time.	N. Y. TIDE.
D. of M. Day of W'k.	SUN R.&S.	MOON R.&S.	Standard Time.

1	WE.	74 52	morn	5 47	1 74 57	0 1	2 45
2	TH.	75 18	0 30	6 42	2 57 14	0 34	3 39
3	FR.	74 54	1 7	7 38	3 74 58	1 11	4 35
4	SA.	75 15	1 50	8 33	4 57 12	1 55	5 31
5	S.	74 57	2 39	9 26	5 75 0	2 44	6 24
6	MO.	75 13	3 35	10 17	6 57 9	3 40	7 13
7	TU.	74 59	sets.	11 4	7 75 2	sets.	7 59
8	WE.	75 10	7 56	11 48	8 57 7	7 53	8 44
9	TH.	75 1	8 31	0 10	9 75 4	8 29	9 30
10	FR.	75 8	9 4	0 53	10 57 4	9 3	10 12
11	SA.	75 3	9 35	1 38	11 75 6	9 35	10 54
12	S.	75 5	10 6	2 23	12 57 1	10 7	11 42
13	MO.	75 5	10 39	3 9	13 75 8	10 41	0 7
14	TU.	75 7	11 16	4 2	14 56 59	11 19	1 1
15	WE.	75 7	11 58	5 2	15 75 10	morn	2 0
16	TH.	76 59	morn	6 9	16 56 56	0 2	3 7
17	FR.	75 9	0 47	7 18	17 75 12	0 52	4 15
18	SA.	76 56	1 43	8 27	18 56 53	1 48	5 23
19	S.	75 11	2 44	9 27	19 75 14	2 49	6 25
20	MO.	76 53	3 49	10 21	20 56 50	3 53	7 18
21	TU.	75 14	rises.	11 8	21 75 16	rises.	8 2
22	WE.	76 50	7 42	11 49	22 56 47	7 40	8 47
23	TH.	75 16	8 10	0 9	23 75 18	8 9	9 28
24	FR.	76 47	8 37	0 49	24 56 44	8 37	10 6
25	SA.	75 18	9 3	1 28	25 75 20	9 4	10 42
26	S.	76 43	9 29	2 6	26 56 41	9 31	11 20
27	MO.	75 20	9 57	2 45	27 75 22	10 0	.....
28	TU.	76 40	10 28	3 26	28 56 38	10 32	0 24
29	WE.	75 22	11 3	4 12	29 75 24	11 7	1 11
30	TH.	76 37	11 43	5 4	30 56 35	11 48	2 3
31	FR.	75 24	morn	6 1	31 75 26	morn	2 59



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.	CHICAGO. And Central Division.
NEW MOON.....	5d. 11h. 56m. A.	5d. 10h. 56m. A.
FIRST QUARTER...	12d. 5h. 0m. A.	12d. 4h. 0m. A.
FULL MOON.....	20d. 0h. 24m. M.	19d. 11h. 24m. A.
LAST QUARTER...	28d. 3h. 30m. M.	28d. 2h. 30m. M.

BOST'N & CHICAGO.	BOST. TIDE.	N. Y. & PHILA. Local Mean Time.	N. Y. TIDE.
D. of M. Day of W'k.	SUN R.&S.	MOON R.&S.	Standard Time.

1	SA.	75 25	0 29	7 2	1 75 27	0 34	3 59
2	S.	76 32	1 22	8 3	2 56 30	1 27	4 59
3	MO.	75 27	2 22	9 0	3 75 29	2 26	5 57
4	TU.	76 28	3 26	9 52	4 56 27	3 30	6 50
5	WE.	75 29	4 33	10 41	5 75 31	4 36	7 35
6	TH.	76 25	sets.	11 26	6 56 24	sets.	8 20
7	FR.	75 32	7 36	.....	7 75 33	7 36	9 7
8	SA.	76 22	8 0	0 31	8 56 20	8 0	9 52
9	S.	75 34	8 41	1 16	9 75 35	8 43	10 34
10	MO.	76 18	9 17	2 2	10 56 17	9 20	11 21
11	TU.	75 36	9 57	2 51	11 75 37	10 1	.....
12	WE.	76 14	10 44	3 46	12 56 14	10 49	0 45
13	TH.	75 38	11 38	4 49	13 75 39	11 43	1 47
14	FR.	76 11	morn	5 57	14 56 10	morn	2 55
15	SA.	75 40	0 36	7 8	15 75 41	0 41	4 5
16	S.	76 7	1 38	8 12	16 56 7	1 42	5 8
17	MO.	75 42	2 43	9 8	17 75 43	2 47	6 6
18	TU.	76 4	3 49	9 59	18 56 4	3 52	6 57
19	WE.	75 44	4 54	10 43	19 75 45	4 56	7 38
20	TH.	76 0	rises.	11 22	20 56 0	rises.	8 16
21	FR.	75 46	7 4	11 59	21 75 47	7 5	8 57
22	SA.	75 57	7 30	0 16	22 55 57	7 32	9 33
23	S.	75 49	7 57	0 53	23 75 49	8 0	10 9
24	MO.	75 53	8 26	1 31	24 55 54	8 29	10 45
25	TU.	75 51	8 59	2 10	25 75 51	9 3	11 25
26	WE.	75 50	9 37	2 51	26 55 50	9 42	.....
27	TH.	75 53	10 20	3 36	27 75 53	10 25	0 35
28	FR.	75 46	11 9	4 28	28 55 46	11 14	1 26
29	SA.	75 55	morn	5 26	29 75 55	morn	2 24
30	S.	75 43	0 4	6 28	30 55 43	0 9	3 25

BOST'N & CHICAGO.					BOST.		N. Y. & PHILA.				N. Y.	
D of M.	Day of Wk.	Local Mean Time.		Stand-ard Time.	TIDE.	D of M.	Local Mean Time.		Stand-ard Time.	TIDE.		
		SUN & R.	MOON R. & S.				SUN & R.	MOON R. & S.				
1	Mo.	7 ⁵⁵	1 6	7 30		1	7 ⁵⁵	1 10	4 27			
2	Tu.	7 ⁵⁵	2 12	8 29		2	7 ⁵⁵	2 15	5 28			
3	We.	7 ⁵⁶	3 21	9 23		3	7 ⁵⁵	3 23	6 21			
4	Th.	7 ⁵⁵	4 33	10 15		4	7 ⁵⁵	4 34	7 11			
5	Fr.	7 ⁵⁶	sets.	11 1		5	7 ⁵⁶	sets.	7 55			
6	Sa.	7 ⁵⁵	6 38	11 45		6	7 ⁵⁵	6 40	8 41			
7	Su.	7 ⁵⁶	7 13	0 8		7	7 ⁵⁶	7 16	9 30			
8	Mo.	7 ⁵⁵	7 53	0 55		8	7 ⁵⁵	7 57	10 16			
9	Tu.	7 ⁵⁶	8 39	1 45		9	7 ⁵⁶	8 44	11 6			
10	We.	7 ⁵⁵	9 31	2 38		10	7 ⁵⁵	9 36	.....		
1	Th.	7 ⁵⁶	9 10	2 35		11	7 ⁵⁶	10 34	0 34			
2	Fr.	7 ⁵⁵	11 31	3 47		12	7 ⁵⁵	11 36	1 36			
3	Sa.	7 ⁵⁶	morn	5 45		13	7 ⁵⁶	morn	2 43			
4	Su.	7 ⁵⁵	0 35	6 50		14	7 ⁵⁵	0 39	3 47			
5	Mo.	7 ⁵⁶	1 39	7 50		15	7 ⁵⁶	1 42	4 46			
6	Tu.	7 ⁵⁵	2 43	8 43		16	7 ⁵⁵	2 45	5 41			
7	We.	7 ⁵⁶	3 46	9 30		17	7 ⁵⁶	3 47	6 28			
8	Th.	7 ⁵⁵	4 48	10 13		18	7 ⁵⁵	4 48	7 10			
9	Fr.	7 ⁵⁶	5 48	10 51		19	7 ⁵⁶	5 47	7 45			
10	Sa.	7 ⁵⁵	rises.	11 27		20	7 ⁵⁵	rises.	8 21			
1	Su.	7 ⁵⁶	6 26	.....		21	7 ⁵⁶	6 29	9 1		
2	Mo.	7 ⁵⁵	7 6	0 22		22	7 ⁵⁵	7 7	9 39			
3	Tu.	7 ⁵⁶	7 59	1 0		23	7 ⁵⁶	7 40	10 16			
4	We.	7 ⁵⁵	8 15	1 40		24	7 ⁵⁵	8 20	10 55			
5	Th.	7 ⁵⁶	8 51	2 23		25	7 ⁵⁶	9 6	11 41			
6	Fr.	7 ⁵⁵	9 53	3 8		26	7 ⁵⁵	9 58	0 5			
7	Sa.	7 ⁵⁶	10 50	3 58		27	7 ⁵⁶	10 55	0 56			
8	Su.	7 ⁵⁵	11 51	4 55		28	7 ⁵⁵	11 56	1 53			
9	Mo.	7 ⁵⁶	morn	5 55		29	7 ⁵⁶	morn	2 53			
10	Tu.	7 ⁵⁵	0 58	6 56		30	7 ⁵⁵	1 3	3 53			
1	We.	7 ⁵⁶	2 7	7 56		31	7 ⁵⁶	2 9	4 52			

BOST'N & CHICAGO.				BOST.		N. Y. & PHILA.			N. Y.	
D. of M.	Day of W'k.	Local Mean Time.		TIDE.		D. of M.	Local Mean Time.		TIDE.	
		SUN R.&S.	MOON R.&S.	Standard Time.	SUN R.&S.		MOON R.&S.	Standard Time.		
1	Th.	r6 34	3 19	8 51		1	r6 31	3 20	5 48	
2	FR.	s4 52	4 33	9 44		2	s4 55	4 32	6 42	
3	SA.	r6 36	5 48	10 35		3	r6 33	5 46	7 30	
4	S	s4 49	sets.	11 23		4	s4 53	sets.	8 18	
5	Mo.	r6 39	6 29	....		5	r6 36	6 33	9 10	
6	Tu.	s4 47	7 19	0 38		6	s4 50	7 24	10 2	
7	We.	r6 41	8 17	1 32		7	r6 38	8 22	10 54	
8	Th.	s4 45	9 20	2 27		8	s4 48	9 25	11 50	
9	FR.	r6 44	10 26	3 22		9	r6 41	10 30	0 20	
10	SA.	s4 43	11 32	4 22		10	s4 46	11 35	1 21	
11	S	r6 46	morn	5 22		11	r6 43	morn	2 20	
12	Mo.	s4 41	0 37	6 21		12	s4 44	0 40	3 19	
13	Tu.	r6 49	1 40	7 17		13	r6 45	1 42	4 14	
14	We.	s4 39	2 41	8 8		14	s4 43	2 42	5 5	
15	Th.	r6 52	3 41	8 55		15	r6 47	3 41	5 52	
16	FR.	s4 37	4 40	9 38		16	s4 41	4 39	6 36	
17	SA.	r6 54	5 39	10 18		17	r6 50	5 37	7 15	
18	S	s4 35	rises.	10 57		18	s4 40	rises.	7 51	
19	Mo.	r6 56	5 34	11 35		19	r6 52	5 38	8 30	
20	Tu.	s4 34	6 13	....		20	s4 38	6 18	9 13	
21	We.	r6 59	6 57	0 34		21	r6 55	7 2	9 52	
22	Th.	s4 33	7 46	1 15		22	s4 37	7 51	10 32	
23	FR.	r7 1	8 41	1 59		23	r6 57	8 46	11 16	
24	SA.	s4 32	9 40	2 45		24	s4 36	9 44	....
25	S	r7 4	10 43	3 33		25	r6 59	10 46	0 31	
26	Mo.	s4 31	11 49	4 25		26	s4 36	11 51	1 24	
27	Tu.	r7 6	morn	5 21		27	r7 1	morn	2 19	
28	We.	s4 30	0 57	6 20		28	s4 35	0 58	3 18	
29	Th.	r7 8	2 7	7 20		29	r7 3	2 7	4 16	
30	FR.	s4 29	3 20	8 18		30	s4 34	3 19	5 15	



MOON'S PHASES. (In Standard Time.)	BOSTON. And Eastern Division.			CHICAGO. And Central Division.		
NEW MOON.....	3d.	5h.	5m. M.	3d.	4h.	5m. M.
FIRST QUARTER...	10d.	1h.	46m. M.	10d.	0h.	46m. M.
FULL MOON.....	18d.	5h.	41m. M.	18d.	4h.	41m. M.
LAST QUARTER...	26d.	1h.	0m. M.	26d.	0h.	0m. M.

BOST'N & CHICAGO.				BOST.	N. Y. & PHILA.				N. Y.
D. of M.	Day of W'k.	Local Mean Time.		TIDE.	D. of M.	Local Mean Time.		TIDE.	D. of M.
		SUN R. & S.	MOON R. & S.			SUN R. & S.	MOON R. & S.		
				Standard Time.					Standard Time.

1	SA.	7 10	4 36	9 15	1	7 5	4 34	6 13
2	S	5 28	5 53	10 11	2	5 33	5 50	7 8
3	MO.	7 12	sets.	11 5	3	7 7	sets.	7 59
4	TU.	5 28	5 58	11 56	4	5 33	6 3	8 53
5	WE.	7 14	7 1	0 23	5	7 9	7 6	9 49
6	TH.	5 28	8 9	1 18	6	5 33	8 14	10 40
7	FR.	7 16	9 18	2 12	7	7 11	9 22	11 34
8	SA.	5 28	10 25	3 4	8	5 33	10 28	0 1
9	S	7 18	11 30	3 55	9	7 13	11 32	0 54
10	MO.	5 28	morn	4 49	10	5 33	morn	1 47
11	TU.	7 20	0 33	5 43	11	7 15	0 34	2 41
12	WE.	5 28	1 34	6 36	12	5 33	1 33	3 33
13	TH.	7 21	2 33	7 27	13	7 16	2 32	4 23
14	FR.	5 29	3 32	8 15	14	5 34	3 30	5 12
15	SA.	7 23	4 31	9 1	15	7 18	4 28	5 59
16	S	5 29	5 30	9 46	16	5 34	5 26	6 44
17	MO.	7 24	6 28	10 29	17	7 19	6 23	7 25
18	TU.	5 29	rises.	11 11	18	5 35	rises.	8 4
19	WE.	7 25	5 41	11 51	19	7 20	5 46	8 49
20	TH.	5 31	6 35	0 12	20	5 36	6 40	9 32
21	FR.	7 26	7 34	0 55	21	7 21	7 38	10 14
22	SA.	5 32	8 36	1 39	22	5 37	8 40	10 55
23	S	7 27	9 40	2 23	23	7 22	9 43	11 41
24	MO.	5 33	10 46	3 8	24	5 38	10 48	0 5
25	TU.	7 28	11 52	3 56	25	7 23	11 53	0 54
26	WE.	5 34	morn	4 48	26	5 39	morn	1 47
27	TH.	7 29	1 1	5 45	27	7 23	1 0	2 43
28	FR.	5 35	2 13	6 46	28	5 41	2 11	3 43
29	SA.	7 29	3 27	7 49	29	7 24	3 24	4 45
30	S	5 37	4 42	8 52	30	5 42	4 38	5 49
31	MO.	7 30	5 56	9 52	31	7 24	5 51	6 50

Ther.

SUNDAY, JAN. 1, 1888

Wea.

In Richmond Snowing hard all day did not go to Church. There is here Evening Raining hard Snow going fast quite warm. We have had but little sleighing up to this time. The River is froze up about 7 inch of Ice opposite the Village. No work done on the Ice thus far.

Ther.

MONDAY 2

Wea.

Dull and very warm afternoon wind hauls NW and clears off. Forenoon made a short for Rain. Conductor Afternoon went down Hill.

Got the Horse shed

Ther.

TUESDAY 3

Wea.

Pleasant and quite cold fresh breeze warm. Ripped up my Skates and went out and tried them. Afternoon Skated up to the Camp Ground.

Ther. WEDNESDAY, JAN. 4, 1888 Wea.

Pleasant and quite cold
In forenoon had a Sleigh ride
on River

Afternoon Skated down 15
Roscoe Road

Evening went 15 Meeting

Ther. SATURDAY, JAN. 7, 1888 Wea.

Snowing in forenoon
went 15 ride on River
Afternoon Raining with Sleet
Started on another Case
and worked some on my
Painting

Ther. THURSDAY 5 Wea.

Pleasant with a strong breeze
N.W. and very raw and cold
Forenoon had a short ride on
the River. Afternoon went up
15 Mr Alexanders

Evening went 15 Meeting

Ther. SUNDAY 8 Wea.

Snowing most all day
Clears off in Evening
about one inch of snow fell
did not go to Church

Evening went 15 Meeting

Ther. FRIDAY 6 Wea.

Pleasant and quite cold
at 5 am Started for Weymouth
got there at 9-20 am
Came home in afternoon
Evening went 15 Meeting

Ther. MONDAY 9 Wea.

Very pleasant and quite
cold Wind N.W. Around
the house in forenoon.
Afternoon went 15 ride
down 15 Thompsons and
up 15 the Modocs
Evening went 15 Masons
Anniversary

Ther.

TUESDAY, JAN. 10, 1888

Wea.

Snowing in forenoon
afternoon went down 15 Umb.
pins and carried Sam home
Poor sleighing on the Land
went on the Ice 15 W Lilly's
Stofed all night

Ther.

FRIDAY, JAN. 13, 1888

Wea.

Snowing quite hard all day
and very cold wind N.E.
around the house about all
day. Got a Box of Smelts
from G. Gilmore 21 lbs
killed and dressed the Turkey

Ther.

WEDNESDAY 11

Wea.

Pleasant and cold blowing
a Gale WNW in morning
Went down on W-Bay and
caught 25 lbs Smelts. Started
for Burnt Jacket at 11 am
Left B.G. at 2 PM for
Richmond got here at 4 PM
came up on River
Very cold

Ther.

SATURDAY 14

Wea.

Very pleasant and quite
warm Afternoon went
down 15 Abbe? Lilly's and
then 15 ride on the River

Ther.

THURSDAY 12

Wea.

Pleasant and very cold
Ther. 3° below in morning
Very cold all day
fresh breeze NW
Too cold to do much
work. Had Smelts for
dinner

Ther.

SUNDAY 15

Wea.

quite warm Rainy about
all day Snow melting
quite fast
Did not go to Church
around the house all day

Ther. WEDNESDAY, JAN. 4, 1888 Wea.

Pleasant and quite cold
In forenoon had a Sleigh ride
on River

Afternoon Skated down 15
Roscoe Reeds

Evening went 15 Meeting

Ther. THURSDAY 5 Wea.

Pleasant with a strong breeze
N.W. and very raw and cold
Forenoon had a short ride on
the River. Afternoon went up
15 Mr Alexanders

Evening went 15 Meeting

Ther. FRIDAY 6 Wea.

Pleasant and quite cold
at 8 am Started for Woodlitch
got there at 9-20 am

Came home in afternoon

Evening went 15 Meeting

Ther. SATURDAY, JAN. 7, 1888 Wea.

Snowing in forenoon
went 15 ride on River

Afternoon Raining with Sleet
Started on another Case
and worked some on my
Painting

Ther. SUNDAY 8 Wea.

Snowing most all day
Clears off in Evening
about one inch of snow fell
did not go 15 Church

Evening went 15 Meeting

Ther. MONDAY 9 Wea.

Very pleasant and quite
cold Wind N.W. Arrived
the house in forenoon.
Afternoon went 15 ride
down 15 Thompsons and
up 15 the Medocs

Evening went 15 Masons
Anniversary

Ther.

TUESDAY, JAN. 10, 1888

Wea.

Snowing in forenoon
afternoon went down 15 Uncle
Jims and carried Stan home
Poor sleighing on the Land
went on the Ice 15 W Lilly's
stayed all night

Ther.

WEDNESDAY 11

Wea.

Pleasant and cold blowing
a Gale WNW In morning
Went down on W-Baz and
caught 25 lbs Smelts. Started
for Burnt Jacket at 11 am
Left B.J. at 2 PM for
Richmond got here at 4 PM
came up on River
Very cold

Ther.

THURSDAY 12

Wea.

Pleasant and very cold
Ther. 3° below in morning
Very cold all day
fresh breeze NW
too cold to do much
work. Had Smelts for
dinner

Ther.

FRIDAY, JAN. 13, 1888

Wea.

Snowing quite hard all day
and very cold wind N.E.
around the house about all
day. Got a Box of Smelts
from G. Gilmore 21 lbs
killed and dressed the Turkey

Ther.

SATURDAY 14

Wea.

Very pleasant and quite
warm Afternoon went
down 15 Abbie Lilly's and
then 15 ride on the River

Ther.

SUNDAY 15

Wea.

quite warm Rainy about
all day Snow melting
quite fast
Did not go to Church
around the house all day

Ther.

MONDAY, JAN. 16, 1888

Wea.

Pleasant at 1:30 PM
started for Worlunch got
there 15 g. & S. at 4 PM
stayed all night

Very cold Ther 9° below in
morn

Ther.

TUESDAY 17

Wea.

Pleasant and very cold
Ther 10° below
Went 15 Bath in forenoon
Then went with me took
dinner at Heatties Paid up
for the J. T. S. went back
15 Uncle Jims and stayed all
night Commenced 15 Snow in
evening

Ther.

WEDNESDAY 18

Wea.

A very heavy N.E. Snow
Storm about 3 in of Snow
fell on the land
Got out my Pony harness
and had them bent
Agreed with Nat Hanson to build
me a small Bow
Stayed 15 Barley Week through the
night

Ther.

THURSDAY, JAN. 19, 1888

Wea.

Pleasant and very cold with
a Gale from N.W. Snow drifting
bad at 9-90 left for Barnet Jacket
got there at 11 am Left there at 1:30
PM for Richmond got home at
4 PM very cold ride and very
hard traveling. Crossed the Ice
at Abbagadasset Point

Ther.

FRIDAY 20

Wea.

Pleasant and very cold
with a Gale from N.W.
Worked on my Pony in forenoon
Afternoon went to take Painting
Lessons but the teacher was sick
so went down 15 Abbie
Lilly's came home and worked
on Pony

Ther.

SATURDAY 21

Wea.

Very pleasant and dreadful
cold blowing a Gale N.W.W.
Forenoon worked on my
Pony. Afternoon went
and took Painting Lesson
1/2 5
Evening blowing hard
and bitter cold

Ther.

SUNDAY, JAN. 22, 1888

Wea.

Very pleasant and dreadful
cold. Did not go to Church

Went to Meeting in evening

Ther.

WEDNESDAY, JAN. 25, 1888

Wea.

Pleasant and very cold
Forenoon went over to
Sagadahoc ferry tried to get
to Bath but failed. boats froze
up. Afternoon went up
to Frank Trolts. Commenced
to snow in evening
Went back to Banley Neck

Ther.

MONDAY 23

Wea.

Pleasant and very cold. Ther.
in Morn 15° below 0
At work on my Pond
Afternoon went to ride on
River up to Modock Ice houses

Ther.

THURSDAY 26

Wea.

The worst Storm of Snow
and wind I ever saw in
Maine. Worked some
on my Pond Runners

Ther.

TUESDAY 24

Wea.

Pleasant and very cold. Went
to Woodmich in forenoon went
to Jordan Crockens funeral
afternoon blowing a heavy
Gale N.W. Snow drifting
very bad
Went down to Uncle Jims
stayed all night

Ther.

FRIDAY 27

Wea.

Cleans off but a heavy
Gale N.W. Snow drifting
very bad the Roads are
drifted full with a bad
crust

Ther. SATURDAY, JAN. 28, 1888 Wea.

Pleasant and very cold
at 8 am started for Beth
on Snow Shoes. Crossed the
Ice at Sagadahoc ferry
and took the 1-50 P.M.
Train for R. Took dinner
at Capt Kellogg's for home
at 4 P.M. found Hattie here
My yard is drifted full of
Snow

Ther. SUNDAY 29 Wea.

Pleasant went to Church
twice

Ther. TUESDAY, JAN. 31, 1888 Wea.

Pleasant and Cold Ther
12° below
at 8 am started with
Hattie for Beth got there
at 9 P.M. - went over to
Uncle Jim's stayed all
night - found Billy all
right

Ther. WEDNESDAY, FEB. 1 Wea.

Pleasant and quite mild
left Uncle Jim's at 8 am
for Brown Jacket took dinner
there came up home in
afternoon very bad
traveling

Ther. MONDAY 30 Wea.

Pleasant - finished shoveling
out my awells
Worked on my Pang all
day

Ther. THURSDAY 2 Wea.

Very pleasant - worked on
my Pang most all day
Afternoon Ellen and
I took a short ride around
town and down on the
River to get some Cedar
for Home

Ther.

FRIDAY, FEB. 3, 1888

Wea.

Very pleasant - worked on
my Pang most all day
Afternoon Ellen and I
went on the River 15 mile
went up to Modoc Ice
Houses

Ther.

SATURDAY 4

Wea.

Clouds up in forenoon
Ther in morn 40 below
Afternoon Snowing
Worked on Pang most all
day
David came up in
forenoon went back in
Afternoon

Ther.

SUNDAY 5

Wea.

Pleasant went to
Church Day and Evening

Ther.

MONDAY, FEB. 6, 1888

Wea.

Pleasant and mild
Worked on my Pang
most all day

Ther.

TUESDAY 7

Wea.

Snowing light most all
day At work on my
Pang
Afternoon Carried Ellen to
the Lower part of Village then
I went 15 mile on the Ice
to Stearns Point

Ther.

WEDNESDAY 8

Wea.

Raining most all day
at work on Pang
Not sociable in Eve

Ther.

THURSDAY, FEB. 9, 1888

Wea.

Very pleasant and cold
Worked on Pong in forenoon
Afternoon Ellen and I
went out to Richmond
Cannon - 15 get Home
Shad

Ther.

SUNDAY, FEB. 12, 1888

Wea.

Very pleasant and quite cold
Went to Church in afternoon
and evening

Ther.

FRIDAY 10

Wea.

Quite pleasant through the
day but very cold 9° below
in noon and very cold all
day Carried my Pong to
Mr Bert the Blacksmith
to have it grooved Worked on
Pong Seats most of the day
Afternoon took a short ride
around town and on the River

Ther.

SATURDAY 11

Wea.

Snowing all day and
blowing hard NE Very cold
Ther 6° above
at work on my Pong Seats
about all day

Ther.

MONDAY 13

Wea.

A very pleasant day
Forenoon got Paint for Pong
Afternoon Ellen and I went
over to Eastern River Lower
Bridge across the Kennebec
to Swan Id and home
Got my Pong from Black-
smiths and commenced to
Paint it

Ther.

TUESDAY 14

Wea.

Bloody and warm Wind SW
Forenoon Painted my Pong
Afternoon Ellen and I went
to ride up to Merrill Temples

Ther. WEDNESDAY, FEB. 15, 1888 Wea.

Snowing quite hard in forenoon Afternoon clears off and commences to blow very hard NW and grows very cold Ther at Ark 42 below Zero

Had the Socible in the evening quite a number turned out

Ther. THURSDAY 16 Wea.

Pleasant but very cold Strong wind NW Snow blowing around the houses in forenoon In afternoon went down street

Ther. FRIDAY 17 Wea.

Dull in morn but clears off at Noon Went to Washwith in forenoon In afternoon went to Bath and came home to Richmond got her at 6-45 Pm

Ther. SATURDAY, FEB. 18, 1888 Wea.

Snowing about all day a little & Clears off towards night. Around the house in forenoon. Afternoon took a short ride with Florence Carried my Pong out in the Barn

Ther. SUNDAY 19 Wea.

Very pleasant did not go to Church in daytime went in evening

Ther. MONDAY 20 Wea.

Snowing in forenoon Wind East Wm Reed hauled me two horse loads of hay 1580 lbs Afternoon Raining hard Wind S.E.

Ther.

TUESDAY, FEB. 21, 1888

Wea.

A very pleasant and warm day Snow melting very fast Tracks very bad. Slumped. Picked over the Apples. Cleaned out sheep house and done odd jobs.

Ther.

WEDNESDAY 22

Wea.

Very pleasant and warm Wind W. Finished painting my Picture Box and jacket. Done small jobs. Made two frames for my Pictures.

Commenced on Tier of Wood

Ther.

THURSDAY 23

Wea.

Pleasant and warm. Forenoon took a ride on River. Afternoon loaded horses with George Gill on the River.

Ther.

FRIDAY, FEB. 24, 1888

Wea.

Very pleasant and warm. Went down on the Ice in forenoon but did not trot any.

Had a horse trot in afternoon did not take out Billy. David and Maz came up in forenoon. Stopped all night.

Ther.

SATURDAY 25

Wea.

Clouds up and East. Had a horse trot on the Ice in forenoon. Took Billy down and drove him. David and Maz went home in afternoon. Worked some on David's Sail.

Ther.

SUNDAY 26

Wea.

Dull went to Church in day and evening.

Ther.

MONDAY, FEB. 27, 1888

Wea.

Pleasant had a horse
Trout on the River in
afternoon Took Billy
down and tried him

Ther.

THURSDAY, MAR. 1, 1888

Wea.

Pleasant and quite cold.
In forenoon went over
to Bath went up to Hattie's
took dinner. At 2 Pm
went to the N.E. yard to see
Gladers yacht launched
went back to Uncle Jims
stayed all night

Ther.

TUESDAY 28

Wea.

Pleasant and cold
Ther at 20 in Mon
Went to Waulwich in
forenoon Took dinner at
home Afternoon went
over to Frank Trouts and
staid all night Ellen with
me

Roseve Reed hauled first load of
wood

Ther.

WEDNESDAY 29

Wea.

Pleasant. In forenoon
went over to Waterman
Tibbels took dinner. Afternoon
went down to Mrs Soles.
made call then over to
Uncle Jims and stayed
all night

Ther.

FRIDAY 2

Wea.

Pleasant and cold wind NW
left for home at 9 am
called at Johns for an
hour got home at 12-30
Pm found everything all
right

Ther.

SATURDAY 3

Wea.

Snowing light most all
day. Afternoon scraped
the ice for a horse Trout
to horses entered Billie got
second money. Trilled
for Oats

Ther.

SUNDAY, MAR. 4, 1888

Wea.

Very pleasant but blowing
a Gale NW Snow blowing
quite bad

Went to Church day
and Evening

Ther.

MONDAY 5

Wea.

Pleasant Sailed out
in forenoon
Afternoon Frank Lovell
and I went down to
Washup Lillys after Tomcats
and Smelts got 30 Smelts
and 3 bush Tom Cats

Commed to Saw My Wood

Ther.

TUESDAY 6

Wea.

Pleasant and quite warm
Sawing Wood in forenoon
Afternoon went down
on River to sports
the House had a few scrub
traces

Ther.

WEDNESDAY, MAR. 7, 1888

Wea.

Cloudy Sawing wood part
of the day
Evening went down
on the River with Billie
in company with Mr. Barker

Ther.

THURSDAY 8

Wea.

Snowing some
Sawing wood in forenoon
Afternoon had a horse
trot on the River Entered
and drove Billie

Ther.

FRIDAY 9

Wea.

Pleasant Rose R.
finished hunting my
wood 3 Cords
at work sawing most
all day

Ther.

SATURDAY, MAR. 10, 1888

Wea.

Pleasant and very warm
John and George came
out in forenoon
In Afternoon and all
went over on Eastern
River to a horse trot
did not trot Billie

Ther.

TUESDAY, MAR. 13, 1888

Wea.

Snowing hard all the forenoon
Afternoon clears off Wind fresh
N.E.
Sawing. Splitting & piling
my wood most of the day

Ther.

SUNDAY 11

Wea.

Cloudy wind East and
looks like Rain
Went to Church day and
evening
Wrote to David G.

Ther.

WEDNESDAY 14

Wea.

Dull and Snowing most
of the day
At work sawing my wood
Wind N.E. Warm Snow
Melting quite fast

Ther.

MONDAY 12

Wea.

Went to town Meeting
in forenoon Dull meeting
with 3 heat-
Afternoon Snowing hard
and blowing from N.E.
At work sawing my wood

Ther.

THURSDAY 15

Wea.

A very pleasant day
Sawing Wood most of
the day

Ther.

FRIDAY, MAR. 16, 1888

Wea.

Bloody and warm Wind
NW
Frank Lowell Joe Alexander
and myself went out
15 Coblesse Pond Pickrel
fishing got 50 got back
at dark

Ther.

SATURDAY 17

Wea.

Very pleasant and Cold
at 8 AM started for North
got there at 10 AM
left for home at 4 PM
got here at 6 PM but
Traveling and a very Cold
ride

Ther.

SUNDAY 18

Wea.

Very pleasant Wind NW
quite cold
Went to Lecture in Evening

Ther.

MONDAY, MAR. 19, 1888

Wea.

Pleasant and warm
Sawing wood most
of the day

Sent letter No 2 to
Dimit S.

Ther.

TUESDAY 20

Wea.

Raining about all day
at work sawing up my
years wood
fresh breeze S.E.

Augusta Reed died this
morn

Ther.

WEDNESDAY 21

Wea.

Raining in Towns
all day finished Sawing
my wood
Snow going off very
fast

Ther.

THURSDAY, MAR. 22, 1888

Wea.

Very pleasant and warm
day Snow melting very
fast at 12 m started
to go to Woolwich to August
Reed's funeral but found
the ice so bad returned

Ther.

FRIDAY 23

Wea.

Snowing and blowing hard
in forenoon

Afternoon clears off

Evening cold and freezing

Got a sack of shorts for
horse

Ther.

SATURDAY 24

Wea.

Very pleasant and cold, In
morn carried Abby Lilly cher
apples. Afternoon Carried Ella
down to spend afternoon & also
went

Evening went to meeting

Ther.

SUNDAY, MAR. 25, 1888

Wea.

Very pleasant and quite cold
Went to meeting day and evening

Ther.

MONDAY 26

Wea.

Pleasant and quite warm in
forenoon. Got some lumber
from Mill and commenced on
my Grape Vine Arbor

Ther.

TUESDAY 27

Wea.

Snowed last night 3 inches
Dull and damp all day
wind N.E. Forenoon
worked on Grape Vine Arbor
Afternoon went down Street
to look at a suit of
clothes

Ther. WEDNESDAY, MAR. 28, 1888 Wea.

Dull and Raining most-
all day. Snow going off fast-

At work most of the day
on Grape Vine Arbor

Ther. SATURDAY, MAR. 31, 1888 Wea.

Snowed about 2ⁱⁿ last night-
Cloudy about all day clears
off at night-

Worked on my Grape Rack
about all day

Florence went to Boston this
morn

Ther. THURSDAY 29 Wea.

Dull and soft. At work
on Grape Rack

Ther. SUNDAY, APRIL 1 Wea.

Pleasant and warm. Went
to the Methodist in day and evening
to church

Ther. FRIDAY 30 Wea.

Clears off Pleasant quite
warm. Teams crossed
on the ice at the Ferry
but the ice is very weak
got a Parrot for S.G.
At work on Rack

Ther. MONDAY 2 Wea.

Snowing Most all day
Washed and put away
the Sleighs
Evening went to hear the
Iceland lecture

Ther.

TUESDAY, APRIL 3, 1888

Wea.

Pleasant Wind 15 Woodland
in Cars Stated at 9 o'clock
Jine all night

Ther.

FRIDAY, APRIL 6, 1888

Wea.

Clears off in Morn
went driving two hours
in Morn
Afternoon went 15
Bath with B. B. and
over home with him
and stated all night

Ther.

WEDNESDAY 4

Wea.

Pleasant and Warm
walked up home and
Said Papered my Boat
and got her ready for
Painting
George B. came up in
evening 10 Hlew my from

Ther.

SATURDAY 7

Wea.

Pleasant with strong
breeze N.W.
forenoon went over
15 Bath and took the
1.50 PM train for Richy
Fran came up with me
found Ellen all right

Ther.

THURSDAY 5

Wea.

Pleasant in Morn went
driving for three hours
worked about all day Hlew
my Boat home from
Commenced 18 Rain in
evening

4

Ther.

SUNDAY 8

Wea.

Pleasant went 15 Church

Ther. MONDAY, APRIL 9, 1888 Wea.

Pleasant went down to
Woolwich on early train
walked up to Days Ferry Point
John met me there
Painted my Boat bottom

Ther. TUESDAY 10 Wea.

Pleasant Painting on
my Boat

Ther. WEDNESDAY 11 Wea.

Raining and Snowing
all day
helped David make a
mast for his Boat

Germa Arrived at Zeland
129 days from Frisco

Ther. THURSDAY, APRIL 12, 1888 Wea.

Pleasant Painted some
on Inside of my Boat
and the 2nd coat of Green
on her bottom

Ther. FRIDAY 13 Wea.

Pleasant and I had fresh
breeze N W. Went to Bath
in Morn and took dinner
at Healties came to Richmond
on 2-50 P M Train

Ther. SATURDAY 14 Wea.

Snowing wind E
Wheeled out my manure
and spread on front yard
Finished my Crab Rack

Sent a letter to David G.
Kennebec Ice broke through
this morn

Ther. SUNDAY, APRIL 15, 1888 Wea.

Pleasant went to Church
day and Evening
Mr Smith Preached

Ther. WEDNESDAY, APRIL 18, 1888 Wea.

Pleasant worked on
Darius house all day

Ther. MONDAY 16 Wea.

Pleasant went to Bath
and up to Boat Jacket
Painted my Boat's floor
went sailing in afternoon

Painted my Boat a coat
of white outside

Ther. THURSDAY 19 Wea.

Pleasant worked on
Darius house until 2 PM
then started for Richmond
took 1 Dock & 2 Whistles
on the way up got home
at 4 PM

Ther. TUESDAY 17 Wea.

Pleasant worked on
Darius house all day
Painted my mast

Ther. FRIDAY 20 Wea.

Overcast most all day
at work painting the
Grave Arbor

Ther. SATURDAY, APRIL 21, 1888 Wea.

Snowing most all day
Painted the new Grape Arbor
Trimmed the apple Trees

"Star of the East" came up
for the first trip of the season

Ther. TUESDAY, APRIL 24, 1888 Wea.

Cloudy and cold strong
breeze NW

Put the Grape Arbor in
place and done several
jobs around the house

Ther. SUNDAY 22 Wea.

Pleasant and warm
Went to Church day and
Evening
Dr Allen preached his last
sermon

Ther. WEDNESDAY 25 Wea.

Pleasant went to Woodlark
in evening float helped David
shingle his ill in afternoon
Evening saw Jim spinning
about Wharf Logs

Ther. MONDAY 23 Wea.

Pleasant and warm
Took the Banking and
done several jobs

Got a letter from David
G. and Houghton Bros
asking me to take the "Levia"
Sent two letters to David
G.

Ther. THURSDAY 26 Wea.

Very pleasant and warm
left W. for Richmond on 7:15
Train Went back to Bath
on the "Star" to Masonic
meeting took 4 degree

Got a letter from David G.
2nd one from Queenstown it
had been astray

Ther.

FRIDAY, APRIL 27, 1888

Wea.

Pleasant Got my Wharf
logs from Jim Spinney

Ther.

MONDAY, APRIL 30, 1888

Wea.

at work on my Wharf finish
it and got the Boat house
partly framed

Nat. Clear. & Charles all
day

Ther.

SATURDAY 28

Wea.

Pleasant helped the
Boys put up the Weir

Ther.

TUESDAY, MAY 1

Wea.

Finished framing and
partly boarded the Boat house
and put Boat into it

Nat. Clear. & Charles
 $\frac{1}{2}$ day

Ther.

SUNDAY 29

Wea.

Cloudy and Rain in
noon
Afternoon went down to
Auch farms back in
evening

Ther.

WEDNESDAY 2

Wea.

Blowing hard from N.E. and
Rain In afternoon went
over to Varney's after Lumber
Charles $\frac{1}{2}$ day after Lumber

Ther.

THURSDAY, MAY 3, 1888

Wea.

Finished Boarding and
commenced Shingling
B-house

Charles all day

Went to Bath in evening
Took 50 & degree in Masonry

Ther.

FRIDAY 4

Wea.

Finished Shingling B-house
and cleared up some

Charles Wright 1/2 day

Ther.

SATURDAY 5

Wea.

Finished clearing up
around B-house in forenoon
at 12 m started for home
David carried me to the Namm
I walked to Bath came home
in Cars found every thing
all right

Ther.

SUNDAY, MAY 6, 1888

Wea.

Pleasant went to Church
day and evening heard
Mr Cobb for first time

Ther.

MONDAY 7

Wea.

Pleasant with strong Gale
NW done several small
jobs and spaded up part
of the Garden
Took Billy out for exercise
in fore and afternoon
Went to a Local entertainment
at Opera House

Ther.

TUESDAY 8

Wea.

Pleasant at work around
the house

Got a letter from Houghton
Broos about going away

Ther.

WEDNESDAY, MAY 9, 1888

Wea.

Dull and Rain in Morn
clears off at Noon
Went to Bath on 7 am train
to see the Houghton Bros. Went
over to Uncle Jim's got dinner
came home on 1:30 train

Ther.

SATURDAY, MAY 12, 1888

Wea.

Dull and Raining hard about
all day. At work around
the House getting ready to go
away
Made Jan an Oase

Ther.

THURSDAY 10

Wea.

Dull and Raining hard
David came up in forenoon
towed back behind the Star
Ellen and I went to Bath in
Star I took R.A. degree
in Masonry
Staid at Hattie's all night

Ther.

SUNDAY 13

Wea.

Dull and raining all day
did not go to Church

Ther.

FRIDAY 11

Wea.

Dull in Morn Ellen Hattie
and I went over to Uncle
Jim's with Hattie's Horse staid
all day went back to H. and
staid through the night

Ther.

MONDAY 14

Wea.

Dull and Raining
at work around the
house all day getting
ready to go away to Sea

Ther.

TUESDAY, MAY 15, 1888

Wea.

Dull and Raining about all day. At work around the house. Cleaned out the drain and other small jobs.

Paid my Taxes for this year \$37.46

Ther.

WEDNESDAY 16

Wea.

Pleasant and quite warm fresh breeze SW

Got a letter from Houghton Bros but not stating when I should start.

Abbie & Lyde spent the evening with us

Ther.

THURSDAY 17

Wea.

Pleasant - went to Bath on "Star" to Masonic Meeting. Stayed to Hattie's all night.

Ther.

FRIDAY, MAY 18, 1888

Wea.

Pleasant - Got a Telegram from Houghtons at 10 am. To leave on afternoon train for Boston to go in Steamer "Atlas" to Liverpool and from there to Cardiff by train. Left Richmond on the 11:45 PM train. Carried Bills to George Newells for him to keep for the year for \$35.00. Shut up the House.

Ther.

SATURDAY 19

Wea.

Dull and misting all day. Got into Boston 6 am. Went to Carnard Office got my ticket and went on board Steamer with my trunks. Then went and called on Abbie & Florence. Then went shopping. Went on board at 2:30 and left the Dock at 3:15 PM for Liverpool. Foggy and misty.

Ther.

SUNDAY 20

Wea.

On the Steamer "Atlas" of the Carnard line from Boston to Liverpool.

Ther. MONDAY, MAY 21, 1888 Wea.

Between Boston & Liverpool

Ther. THURSDAY, MAY 24, 1888 Wea.

Do

Ther. TUESDAY 22 Wea.

Between Boston & Liverpool

Ther. FRIDAY 25 Wea.

Do

Ther. WEDNESDAY 23 Wea.

on the Atlantic Ocean
Between Boston & Liverpool

Ther. SATURDAY 26 Wea.

Do

Ther.

SUNDAY, MAY 27, 1888

Wea.

Pleasant and very warm
staid on Deck most all
day

Ther.

MONDAY 28

Wea.

Pleasant with Moderate
breeze from S.E.
Afternoon fresh breeze and
Rain
Evening clears off.

Ther.

TUESDAY 29

Wea.

Cloudy with Moderate
breeze S.W. Smooth Sea
Made the Irish coast
at 3 P.M.

Got up 15 Queenstown at
9 P.M. could not get
into harbour this eve
Bad weather

Ther.

WEDNESDAY, MAY 30, 1888

Wea.

at 2 am got into
Queenstown landed
Passengers Sailed at 4 am

Passed Point Lynas
at 8 P.M.

Ther.

THURSDAY 31

Wea.

Got into Liverpool at
3 am. & Landed out
of Steamer at 7 am
took my trunks 15
Lime St Station. Left for
Cardiff at 12 noon
got to Cardiff at 4.42
David met us
Went to Hotel

Ther.

FRIDAY, JUNE 1

Wea.

Pleasant went on
board ship "Servic" in
Penarth in forenoon

Afternoon Arrived town
in Cardiff
Got Rooms on Wandsworth
Esplanade
Ship went under Ballast Crane

Ther. SATURDAY, JUNE 2, 1888 Wea.

Stopped discharging Ballast until
we get the Booms at 4 P.M.

Around town the rest of the
day

Ther. SUNDAY 3 Wea.

Pleasant went to
Church in forenoon 15
Cord

Ther. MONDAY 4 Wea.

Pleasant Got the Booms
in forenoon Discharging
Ballast in Afternoon.
Went to Court.
Spent Evening at J. Knapp

Ther. TUESDAY, JUNE 5, 1888 Wea.

Cloudy and fair Alternately
fresh Gale E & E
Finished discharging Ballast
at 6 A.M.

Was measured for a suit
of Clothes

Ther. WEDNESDAY 6 Wea.

Around town most
all day
Went over to ship in
forenoon

Ther. THURSDAY 7 Wea.

Dull went over to ship
in forenoon

David and I went up
town in Afternoon

Spent Evening at Mr
Ankells

Ther.

FRIDAY, JUNE 8, 1888

Wea.

Raining hard most all
day
Around the Store all
day
Wrote a letter to Jan

Ther.

MONDAY, JUNE 11, 1888

Wea.

Very pleasant and warm

"Nancy Pendleton" sailed at 4 am.

"Servia" went under Coal Tip at
6 am

Commenced 15 ship crew

Ther.

SATURDAY 9

Wea.

Ther.

TUESDAY 12

Wea.

Raining hard all day Ship
under Tip looking very close
into main hatch

Ther.

SUNDAY 10

Wea.

Pleasant - Went to Church
day and evening Heard
Peter McKenzie preach

Capt Pendleton & wife left
the house and went on
board ship

Ther.

WEDNESDAY 13

Wea.

Pleasant part of the day after-
noon
At 5 am hauled ship to after
hatch

Ther.

THURSDAY, JUNE 14, 1888

Wea.

Pleasant
Finished loading ship
at 12 noon 2586 tons
on board Draft of ship
about 29 ft forward 23-7"

Hauled down 15 Bales in
afternoon washed off
Eden and I moved
on board

Ther.

FRIDAY 15

Wea.

Dull and Raining Strong
breeze S-W and W. Left the
Dock at 11 am in tow
of the "Flying Dragon"
at 5 PM Land Addressed
5 miles east of Jay and
made sail fresh breeze NNE
fine weather. We have a
good send off on our voyage

Ther.

SATURDAY 16

Wea.

Very Pleasant Moderate
breeze from NE
a Bark in company
have made a very good
run off shore

Ther.

SUNDAY, JUNE 17, 1888

Wea.

Pleasant with a moderate
breeze from ENE saw several
vessels bound E and some
bound S-

2

Dis over 115 miles

Ther.

MONDAY 18

Wea.

Cloudy and misty fresh breeze
from ENE a Bark in
company

Afternoon wind shifts to NE
and clears off fresh breeze
at work trimming coal

3

Lat 44-12 Lon 12-26 Dis 215

Ther.

TUESDAY 19

Wea.

Pleasant with a moderate breeze
from NE. I find by lbs the
ship is making more Western
than the courses give her (don't
know the reason of it)

Done a big washing
The Chocks are within one sec
of each other

4

Lat 43-58 Lon 15-14 Dis 153 miles

Ther. WEDNESDAY, JUNE 20, 1888 Wea.

Pleasant with very light
airs from N. Smooth sea
A four mast ship astern
coming up on us

5

Lat 42-32 Lon 14-01 Dis 85 miles

Ther. THURSDAY 21 Wea.

Moderate breeze from S.E. with
Rain

Bent and set main Royal Stay
Sail

6

No ill this day

Lat 41-42 Lon 14-45 Dis 58 miles D.R.

Ther. FRIDAY 22 Wea.

Pleasant Morning Calm at
11 am light air from NW
The four mast ship in company

Shifted Lower fore & Main Top
Sails & Upper Fore Top Sail

Ship "Margartha" in
company

Lat 40-15 Lon 14-08 Dis 85 miles

Ther. SATURDAY, JUNE 23, 1888 Wea.

Dull and misty Rain all
day
Ship "Margartha" in company

Wind very light about N by E.

6

Lat 38-35 Lon 18-45 Dis 132 miles

Ther. SUNDAY 24 Wea.

Pleasant with passing clouds
Calm in morn at 8 am light
breeze from S.W. Saw a Brig
and Schooner steering W.
Exchanged signals with German
Ship "Margareta" from Fredericksburg
for Baltimore N.S.W. 34 deg out

Lat 37-54 Lon 18-42 Dis 42 miles

Ther. MONDAY 25 Wea.

Pleasant with passing clouds
An Am^r Schooner Whaler in
company and two Barks
steering for Liberia Straits
Moderate breeze S.W. by S
We have out sailed the German
Ship

10

Lat 36-18 Lon 14-54 Dis 125 miles

Ther.

TUESDAY, JUNE 26, 1888

Wea.

Pleasant with moderate breeze
S.W. Dead ahead
At 9 Am an Amerⁿ ship crossed
our steam on Port tack
suppose her to be the "Nancy
Pendleton" standing 15 NW

11

Lt 34-04 L 15-41 Dis 150 mls

Ther.

WEDNESDAY 27

Wea.

Very light winds and pleasant
at 5 am Porto Santo Id bore
W of N 20 miles
a Bark in sight 15 leeward
Madeira bearing S.W.
Wind at 12 m W of N

12

Lt 32-43 L 15-43 Dis 72 mls

Ther.

THURSDAY 28

Wea.

Pleasant with light airs
from N.E. Evening wind
freshens a little it has the
appearance of the Trades setting
in 4 Banks and one ship
to leeward bound S.

13

Lt 32-44 L 15-47 Dis 75 mls

Ther.

FRIDAY, JUNE 29, 1888

Wea.

Pleasant with light airs
from N.E. Two Barks in
company

Carpenter commenced 15 Carls
the Prop

14

Ther.

SATURDAY 30

Wea.

Very light winds from N.E.
and fine weather

Changed the last of the sails

15

Ther.

SUNDAY, JULY 1

Wea.

Very light winds from
N.E. and pleasant

16

Ther.

MONDAY, JULY 2, 1888

Wea.

Trades freshens and still
fine weather

17

Lat $27-45^{\circ}$ Lon $20-58^{\circ}$ Dis 128

Ther.

TUESDAY 3

Wea.

Quite fresh Trades N.E.

18

Ther.

WEDNESDAY 4

Wea.

Very pleasant - but not very
warm Fresh Trades from
N.E. I wonder what is
going on around here
today

19

Lat $23-27^{\circ}$ Lon $24-36^{\circ}$ Dis 186

Ther.

THURSDAY, JULY 5, 1888

Wea.

Fresh Trades with passing clouds

20

Lat $19-35^{\circ}$ Lon $24-11^{\circ}$ Dis 195 miles

Ther.

FRIDAY 6

Wea.

Pleasant with moderate
Trades

All drawing sail
set

21

Lat $17-26^{\circ}$ Lon $27-01^{\circ}$ Dis 196

Ther.

SATURDAY 7

Wea.

Pleasant with moderate
Trades N.E.

A vessel in sight - Astern

22

Lat $14-54^{\circ}$ Lon $27-52^{\circ}$ Dis 165

Ther.

SUNDAY, JULY 8, 1888

Wea.

Pleasant with moderate trade
from NE 15 ESE

The Trade has the appearance of
turning into the SW monsoon

A Ship in sight eastward

23

Lat 12-04" Lon 28-01" Dis 170 miles

Ther.

MONDAY 9

Wea.

light variable airs from
all directions with some
Rain Squalls

Three Barks in sight bound
S-

24

Lat 10-24" Lon 26-06" Dis 100 miles

Ther.

TUESDAY 10

Wea.

In the doldrums wind from
all directions at 8 am a light
breeze springs up about W

A Bark in Company apparently
new bound S

Saw two Barks bound W.

25

Lat 9-23" Lon 27-33" Dis 70 miles

Ther.

WEDNESDAY, JULY 11, 1888

Wea.

Moderate Trade from SSW
quite fine weather with
passing clouds

A Barkentine in Company

26

Lat 7-47" Lon 26-51" Dis 104

Ther.

THURSDAY 12

Wea.

Fresh Trade from SSW
quite an high head Sea Ship
pitching quite bad

27

Lat 6-14" Lon 24-49 Dis 137

Ther.

FRIDAY 13

Wea.

Fresh Trade from SSW
A Bark in Company
Leeward

at 6 PM Tacked Sh
head 15 W & S Lat 4-
Lon 22-16"

Moderate Trade fine
weather

28

Ther. SATURDAY, JULY 14, 1888 Wea.

Quite fresh Trades and fine weather Passed a Bark and a Brig under the lee bow and are overhauling very fast. I hope the wind will favor us a little so we can cross the Equator tomorrow.

Lat 3-24^N Lon 29-14^W Dis 102

Ther. SUNDAY 15 Wea.

Pleasant with fresh Trades from SSB A large & Top Ballant Bark Ship in company which are are beating very fast.

Crossed the Equator at 4 PM
Lon 25-58^W 30 days from
Cardiff for San Francisco
Lat 00 47^N Lon 25-25^W Dis 205

Ther. MONDAY 16 Wea.

Moderate Trades and fine weather all sail set
Got 40 lbs of Bow Chain
on deck 15 Paint Shovels

31

Lat 1-54^S Lon 27-04^W Dis 200 miles

Ther. TUESDAY, JULY 17, 1888 Wea.

Strong Trades with a very high sea Ship laboring quite hard At 8-30 AM carried away the M^z Top Ballant Bark sent down the pieces and fitted another and sent it up.

At 1 PM spoke the Am^r Bark John D. Brewer from the East probably for Boston asked him to Report as

Lat 5-02^S Lon 28-33^W Dis 215
Ther. WEDNESDAY 18 Wea.

Fresh Trades fine weather with quite a rough sea. We have made good days work since we crossed the Equator.

We see but only few N-bound vessels.

Lat 6-25^S Lon 30-30^W Dis 227

Ther. THURSDAY 19 Wea.

Fresh Trades and fine weather

Saw a Bark bound N.

34

Lat 11-35^S Lon 32-04^W Dis 207 miles

Ther.

FRIDAY, JULY 20, 1888

Wea.

Pleasant with Moderate breeze
from NE

35

Lat 13-47 Lon 93-18 Dis 148

Ther.

SATURDAY 21

Wea.

Squally in Morn wind
shifts 15 SW and then 15
South. Tacked at 9 am
to Westward
Lost the Trades in 14° 05'

1270 miles This week hope
we will do as good vessel

Lat 14-51 Lon 83-52 Dis 437m

Ther.

SUNDAY 22

Wea.

Pleasant with a fresh Gale
from SSE and a short
high sea from S-SW ship
pitching very much, Tack
in Royals and Staysails

7

Lat 15-45 Lon 35-44 Dis 130

Ther.

MONDAY, JULY 23, 1888

Wea.

Light breeze from SSE
and fine weather

a Bark & Brig in company

38

Lat 17-03 Lon 34-54 Dis 104

Ther.

TUESDAY 24

Wea.

Pleasant most of the day
Squally at times wind
very unsteady from SSE 15
W- 15 W- Brig in company
2 Steamers passed

39

Lat 18-00 Lon 37-30 Dis 69

Ther.

WEDNESDAY 25

Wea.

Light Variable winds Calms
& squalls - Brig in company

40

Lat 19-28 Lon 38-05 Dis 97

Ther.

THURSDAY, JULY 26, 1888

Wea.

Pleasant with moderate breeze
E- Brig in sight astern
in the moon but sailed her
out of sight by noon

Passed Cape Jorio at 8 Pm
41 days from London Id
beating our last years passage
four days 47

Lat 21-51 Lon 38-52 Dis 144 m

Ther.

FRIDAY 27

Wea.

Pleasant with fresh breeze
ENE all sail set

Exchanged Signals with
Arrv Ship
42 Lydla Skaffield
from Rio bound N
Bent best fore & main sails

Lat 24-41 Lon 40-21 Dis 188

Ther.

SATURDAY 28

Wea.

Pleasant with a fresh
breeze NE

at 1 Pm wind dies away
15 light air from N
Saw a Bark bound N

Bent our best sails

43

Lat 27-46 Lon 42-24 Dis 183

Ther.

SUNDAY, JULY 29, 1888

Wea.

Raining hard and squally
in early morn much
lightning and wind shifts
15 S at 4 am Jockey 15 W-
Saw a Steamer bound N
Took in fore & main 3 & 4 sails

Set 3d Ballast Sail again

Lat 28-32 Lon 43-50 Dis 108

Ther.

MONDAY 30

Wea.

Quite pleasant with moderate
breeze from E.E., all sail
set
In evening wind hauled 15
E

Lat 30-15 Lon 46-06 Dis 153

Ther.

TUESDAY 31

Wea.

Pleasant with fresh breeze
N.N.E passing clouds all
sail set

44

Lat 31-54 Lon 48-24 Dis 153

Ther. WEDNESDAY, AUG. 1, 1888 Wea.

Light breeze and fine in the morn At noon it clouds up and has some the appearance of Rain

Opposite the N side River Platte A very good passy for the time of year

47

DR

Lat 34-36 L 50-33 Dis 157 mls

Ther.

THURSDAY 2

Wea.

Moderate breeze N.W. Swell Sea Pleasant all the forenoon but just before noon it clouds up

Saw a Brig standing 15th N

48

DR

Lat 36-30 L 52-22 Dis 143 mls

Ther.

FRIDAY 3

Wea.

Nearly Calm all day, with just air enough to steer from N.E. Thick Fog all day Passed quantities of Kelp

19

Lat 37-25 L 53-22 Dis 75 DR

Ther. SATURDAY, AUG. 4, 1888 Wea.

Dreadful Thunder and Lightning for the past 14 hours Since 4 am until noon dreadful weather I never saw the like in this Latitude before at noon the wind freshens from N.W. and clears off Barometer falling fast It has the appearance of Wind. Got the Lat for first time for 4 days Lat 40-13 L 56-10 Dis 208

Ther.

SUNDAY 5

Wea.

Dull and Rain in the Morn Wind from all directions at 9 am it comes from W. and clears off Light breeze Barometer 29.50 Afternoon Moderate breeze and fine torn out Ruffs and set Main Top Ballant Sail

Lat 41-08 L 55-51 Dis 68 miles

Ther.

MONDAY 6

Wea.

Pleasant with a fresh breeze N.W. all sail set. A heavy Swell coming from S.E. Got good Obs.

52

Lat 42-22 L 56-50 Dis 73

Ther.

TUESDAY, AUG. 7, 1888

Wea.

Cloudy and blows up a Gale
from N. Reefed the top Sails
Barometer 29.60 Commences
Rain

53

Lat

44-50 Lon 58-55 Dis 200

Ther.

WEDNESDAY 8

Wea.

Very pleasant with light
airs from W NW & N
all sail set

54

Lat 46-10 Lon 61-58 Dis 116

Ther.

THURSDAY 9

Wea.

Pleasant. Morn light breeze
N- at 11 am winds shift
to SW and freshens all sails
set

55

Lat 47-00 Lon 62-28 Dis 54

Ther.

FRIDAY, AUG. 10, 1888

Wea.

Pleasant with light airs
from SW, S, & E & E
A ship in company astern
Very smooth sea

56

Lat 47-53 Lon 62-38 Dis 50

Ther.

SATURDAY 11

Wea.

Fresh Gale from E. with
Rain An Iron ship in
company
Crossed 50-0° at 7 am 56 1/2
days from Cardiff A Very good
and pleasant passage thus far

57

Lat 50-45 Lon 64-25 Dis 188 DR

Ther.

SUNDAY 12

Wea.

Blowing a strong Gale from E-
with a very high confused sea
running at 12-20 PM wore ship
heat 15° E set Reefed sails
clears off fine but still blowing
hard I hope we will get a fair
wind soon The Barometer is
low and does not go up any

58

Lat 51-50 Lon 65-50 Dis 88 miles

Ther. MONDAY, AUG. 13, 1888 Wea.

Very heavy Gale from SW with
a very bad cross sea running
Ship pitching and laboring
very heavy at 12 m Gale
begins to moderate Begin
to make sail Baring sea
gone down some and quite
moderate set Main Top & Sail
5-8

Lat 52-23 Lon 64 31 Dis 50 miles

Ther. TUESDAY 14 Wea.

Very heavy Gale from SW Short
high sea. Ship how too

Cape St John bearing at Noon
SW 45 Miles I hope we shall
get a fair wind soon
and have a quick run around
the Cape

60 days out

Lat 54-05 Lon 63-06 Dis 115

Ther. WEDNESDAY 15 Wea.

61

Pleasant Gale has moderated it has been
a long one of 4 days how too most
of the time and very heavy. Tored out
Ruffs this morn. Bat's 30-30 We have been
blown away to the E of Staten Land

Passed Cape St John at 11 PM
61 1/2 days from Penarth Dock

Wind fresh W.

Lat 54-06 Lon 63-02 Dis 8 miles

62
Ther. THURSDAY, AUG. 16, 1888 Wea.

Pleasant with a Very heavy
Gale from N. all the forenoon
at Noon Moderate set Top & Sails
We are making a splendid run
going 9 mile per hour
Evening freshens again took in
V. G. Sails

62

Lat 56-09 Lon 65-05 Dis 147

Ther. FRIDAY 17 Wea.

63

Quite pleasant most of the time
but occasionally a Snow Squall
Wind WSW at 8 am arose ship
beat to NW Tored out Ruffs and
set Top Galant Sails

A Kessel in sight I think from
W

63

Lat 57 35 Lon 67-09 Dis 124

Ther. SATURDAY 18 Wea.

64

Blowing a Strong Gale from
WSW with a very bad sea
at 6 am arose ship beat to
NW Ship laboring heavy
In Morn Tored out ruffs and
drying her for all she is worth

Ther.

SUNDAY, AUG. 19, 1888

Wea.

65

In the morn calm heavy sea
running ship rolling but At 8 am
Diego Ramirez Id bore
NNW 25 miles. A Bark to the E
of us bound W-

Ther.

MONDAY 20

Wea.

66

Pleasant with passing clouds
but blowing a heavy Gale from
NW & a very bad sea running
have been carrying sail heavy
all day to get on Western

Lat 56-54 Lon 73-17^W Dis 137 miles

Ther.

TUESDAY 21

Wea.

67

Moderate breeze from NW with
fog showers all day. Quite a
smooth sea
Saw an English Bark bound
home

Lat 55-22 Lon 76-54 Dis 120

Ther.

WEDNESDAY, AUG. 22, 1888

Wea.

68

Quite a Clear Sky but fog
showers blowing a strong
breeze from N- Very heavy weather
sea running ship pitching hard

Saw a Bark bound E

Lat 54 45 L 80 07 Dis 107

Ther.

THURSDAY 23

Wea.

68

At 4 am wind shifts to WNW
more ship blowing fresh under
Ruffed sails
Saw a Bark bound E

Lat 53-01 L 82-23 83 miles

Ther.

FRIDAY 24

Wea.

70

Blowing a fresh Gale from N-
Ruffed Top Gallant Sails set Rough
sea
afternoon dies away
At dark wind shifts to S-
Barometer very low 29-10
A Barkentine in sight apparently
An American

Lat 53-15 L 83-17 Dis 60

Ther.

SATURDAY, AUG. 25, 1888

Wea.

71

Very bad weather Reefed and shook
out twice Wind from WSW to NW
Squally. Heavy Snow Squalls
Barometer 29.25 high confused
Sea Ship laboring hard
Evening got Reefed T.G. Sails
set Snowing

Lat 53-08° Lon 84-12" Dis 138

Ther.

SUNDAY 26

Wea.

72

A Very Heavy Gale WSW &
WNW a dreadful Cross
Sea running Ship laboring
very hard. Plenty of
Snow in the Squalls

Lat 51-36 Lon 84-18 Dis 93

Ther.

MONDAY 27

Wea.

73

Pleasant with fresh breeze SW
Crossed 50° at 4 am and
I am very glad we are
around Cape Horn. The Gale
moderated in the night. There
is a very bad Cross Sea running
Ship laboring hard

Comment 15 clear the decks

Lat 48-48 Lon 84-33 Dis 148

Ther.

TUESDAY, AUG. 28, 1888

Wea.

74

Pleasant in forenoon
afternoon Raining Moderate
breeze NW
Evening blows up into a
Gale

Lat 46-34 Lon 85-17 Dis 136

Ther.

WEDNESDAY 29

Wea.

75

Fresh Gale from W Rough Sea
Clears off Torn out Reefs
8 am ran a Bark heading
S-

Lat 46-03 Lon 84-24 Dis 97

Ther.

THURSDAY 30

Wea.

76

Blowing a Gale from N and
Raining hard

Under Reefed Sails Barometer
29.30

Evening wind shifts to NW
and breaks away some
4 PM more ship to NW

Lat 44-24 Lon 84-38 Dis 90

Ther.

FRIDAY, AUG. 31, 1888

Wea.

77

At 7 AM wind shifts to
S.W. and blowing a heavy
Gale. We are running with
the bars checked in a little.
There is a very bad sea running
from N.W.W. Ship pitching hard

Barometer 29.10

Lat-48-03 L-84-42 Dis 85

Ther.

SATURDAY, SEPT. 1

Wea.

78

Morning Cloudy with light
air S.E.
At noon wind freshens
and thickens sea commences
to Rain

Lat-41-15 L-85-45 Dis 115

Ther.

SUNDAY 2

Wea.

79

Very pleasant with a strong
breeze from S. The best days
work since we were abreast
of Rio

Lat-38-15 L-87-25 Dis 208

Ther.

MONDAY, SEPT. 3, 1888

Wea.

80

Very pleasant with light
air W.S.W.

Lat-36-10 L-88-10 Dis 147

Ther.

TUESDAY 4

Wea.

81

Gale from W. with lots
of Rain Very bad sea

Ther.

WEDNESDAY 5

Wea.

82

In a Hurricane the worst
time I ever experienced at Sea.
Rough 150 under three Lower T.S.
at 12 night Lower main top gal
blew away at 1-30 am M.Z.
Lower blew away the sea
is frightful. Stove after
kitchen house. Bent and set
Lower main T.S. (New)
Lat-35-25 L-89-30

Ther.

THURSDAY, SEPT. 6, 1888

Wea.

83

Heavy Gale from WSW The Sea
has got more regular but still
the ship is laboring heavy
One sail after another blowing
out of the baskets

34-07 L 88 40 Dis 79

Ther.

FRIDAY 7

Wea.

84

Very pleasant with a light
breeze W. An odd smell
coming from SW

Lat 31-40 L 80 13 Dis 150

Ther.

SATURDAY 8

Wea.

85

Pleasant with a fresh breeze
from NNW. Quite a heavy
smell coming from S.

Lat 30-59 L 80.24 Dis 41 miles

Ther.

SUNDAY, SEPT. 9, 1888

Wea.

84

Very pleasant with a light
breeze N.W. all sail set

Very smooth sea

Lat 28-27 L 84-33 Dis 170

Ther.

MONDAY 10

Wea.

87

Pleasant. Very light air from
N. & Calms. Made no headway
at all
Repairing sails, Smooth Sea

Lat 27-37 88-33 Dis 53 miles

Ther.

TUESDAY 11

Wea.

88

Cloudy all day with light
air from N
An heavy smell coming
from WSW

Lat 27 02 L 89-15 Dis 58

Ther. WEDNESDAY, SEPT. 12, 1888 Wea.

89

Pleasant light breeze N-

25-40 90 49

Ther.

THURSDAY 13

Wea.

90

Pleasant - light air from N-

Cilled

L 25-02 L 92 14 Dis 82

Ther.

FRIDAY 14

Wea.

91

Very pleasant with a light breeze from N N W Smooth Sea

L 23 48 L 91 17 Dis 83

Ther. SATURDAY, SEPT. 15, 1888 Wea.

92

Overcast most of the day Light air from N N W 10-15 Smooth Sea

Changed our Sails

L 22 37 L 90 30 Dis 90

Ther.

SUNDAY 16

Wea.

93

Overcast light breeze N N W at 5-20 Tacked to N Smooth Sea

at 5 Pm Tacked to N N E Wind N W

L 21-48 L 90-12 Dis 79

Ther.

MONDAY 17

Wea.

94

Fresh breeze N W N with passing clouds Bar down 15 29-85

L 19-48 L 89-23 Dis 127

Ther.

TUESDAY, SEPT. 18, 1888

Wea.

Pleasant with a fresh
breeze from NW 15 NNW

Lat 17-31° Lon 87 25° Dis 180

Ther.

WEDNESDAY 19

Wea.

Pleasant with light breeze
from NNW at 8-80 am
Tackel to W
Painting the Water Ways

Lat 14-19° Lon 86 25° Dis 85

Ther.

THURSDAY 20

Wea.

Pleasant

Ther.

FRIDAY, SEPT. 21, 1888

Wea.

Took the Trades S E S E

Lat 14-52° Lon 88 08° Dis 75

Ther.

SATURDAY 22

Wea.

Light Trades, fine weather

Lat 13-55° Lon 90 30° Dis 157

Ther.

SUNDAY 23

Wea.

Very light Trades from
S E S E quite fine weather

We are making a very
long passage & but I am
in hopes we will do
better hereafter

Lat 15-42° Lon 87 19° Dis 53

Lat 12-28° Lon 92-36° Dis 145

Ther. MONDAY, SEPT. 24, 1888 Wea.

101

Pleasant with light
trades S E E

Heavy swell coming from
S W

Lat 10 58⁸ Lon 94 32^W Dis 410

Ther. TUESDAY 25 Wea.

102

Pleasant with very light
trades S E E

Ther. THURSDAY, SEPT. 27, 1888 Wea.

104

Very pleasant and dreadful
hot. Very light air from
S E E

The worst Trades I ever
had in fact and have had
no trades at all

Lat 8 06⁹ Lon 88 08 Dis 94

Ther. FRIDAY 28 Wea.

105

Very pleasant and dreadful
hot
Light trades S E

Lat 8 45⁸ Lon 96 14 Dis 125

Ther. WEDNESDAY 26 Wea.

103

Pleasant and very hot
Very light air from S E E

Lat 6 57⁹ Lon 99 02 Dis 86

Ther. SATURDAY 29 Wea.

106

Very pleasant and hot
Moderate breeze S E E

Caught 4 Bonito

Lat 8 52⁸ Lon 97 23 Dis 90

Lat 6 45⁸ Lon 100 23^W Dis 113

Ther.

SUNDAY, SEPT. 30, 1888

Wea.

107

Very light Trades and
fine weather

The Trades has freshened
a little this forenoon

This is the longest Passage
thus far I ever made

Lat 4-41^N Lon 101-46^W Dis 105^W

Ther.

MONDAY, OCT. 1

Wea.

108

Moderate Trades and very
fine weather

The best-run we have
made for many days

I hope she will keep it up for
some time

Lat 2-46^N Lon 103-53^W Dis 175^W

Ther.

TUESDAY 2

Wea.

109

Pleasant with very light trade
and hot. These are the
worst trades I ever passed
through

Lat 1-04^N Lon 105-55^W Dis 165^W

Ther.

WEDNESDAY, OCT. 3, 1888

Wea.

110

Pleasant and hot. Very
light trades

We are making a very
long passage the longest
I ever made thus far

Crossed the Equator at 8 am in
Lon 106-45^W 110 dgs out from
Cardiff^N

Lat 00-08^N Lon 106-53^W Dis 93^W

Ther.

THURSDAY 4

Wea.

111

Pleasant and dreadful hot
Very light Trades, I
never saw the heat of
it before

Lat 00-59^N Lon 108-15^W Dis 95^W

Ther.

FRIDAY 5

Wea.

112

This morn the Trades freshens
and hauls 15 S.E.G.S.

Lat 2-26^N Lon 109-55^W Dis 195^W

Ther.

SATURDAY, OCT. 6, 1888

Wea.

113

Fresh trades & The weather
has the appearance of the
SW monsoons

This is the best day on
that we have made for
over 50 days

Lat 4-43^N Lon 112-21^W Dis 200

Ther.

SUNDAY 7

Wea.

114

At 5 am The Trades breaks up
and SW monsoons set in

Squally all day with W

Lat 9-54 Lon 114-41 Dis 190

Ther.

MONDAY 8

Wea.

115

Very pleasant and very hot
light breeze W

Ther.

TUESDAY, OCT. 9, 1888

Wea.

116

Pleasant most of the day
but had rain or mist squalls
occasionally wind from all
Points of Compass

Lat 8-44 Lon 115-24 Dis 60

Ther.

WEDNESDAY 10

Wea.

117

Pleasant with light air
from W-15 N-
Very hot

Ab Ship here in sight 15 hrs
W bound W

Lat 10-10 Lon 115-22 Dis 24

Ther.

THURSDAY 11

Wea.

118

Pleasant with light breeze
WNW, Very hot

Ship in Company

Lat 8-45 Lon 115-20 Dis 120

Lat 11-14 Lon 115-08 Dis 67

Ther.

FRIDAY, OCT. 12, 1888

Wea.

118

Pleasant and dreadful hot
light air from W

a three and a four mast
ships in company 10th
West of us

Lat 12-41^N Lon 115-08^W Dec 57

Ther.

SATURDAY 13

Wea.

120

Squally. Doldrums. Rain
on Sunshine
One four mast and two three
mast ships in company

Lat 13-36^N Lon 116-13^W Dec 58

Ther.

SUNDAY 14

Wea.

121

Very pleasant - with quite
a fresh breeze SW
One ship in company

No sign of the NE Trades
as yet

Lat 15-42^N Lon 115-54^W Dec 132

Ther.

MONDAY, OCT. 15, 1888

Wea.

122

Pleasant and dreadful
hot - Very light air from
SW & S

Ship still in company

No Trade as yet
Exchanged signals with ship
"Josephus" 149 days from Phil^a for
Hanse

Lat 17-01^N Lon 116-22^W Dec 83

Ther.

TUESDAY 16

Wea.

123

Pleasant and dreadful hot
Very light air SE

"Josephus" in company

Lat 17-56^N Lon 116-28^W Dec 57

Ther.

WEDNESDAY 17

Wea.

124

Very light Trades from NE
heavy sea from NNW

"Josephus" still in company

Took the Trades this day

Lat 18-56^N Lon 117-07^W Dec 70

Ther. THURSDAY, OCT. 18, 1888 Wea.

125

Pleasant with Moderate Trade
N & E

"Josephus" Royal in sight
astern

Lat 20-02 Lon 118-42 D 110

Ther. FRIDAY 19 Wea.

126

Pleasant Moderate Trade
N-
towards noon wind
freshens a little

Lat 21-27 Lon 120-49 D 148

Ther. SATURDAY 20 Wea.

127

Fresh Trades passing clouds

3 PM Spoke Br Horn mast
Ship "Euphrates" bound S-

Lat 22-56 Lon 122-54 D 147

Ther. SUNDAY, OCT. 21, 1888 Wea.

128

Light Trades. Quite an high
Sea from N & NW

Lat 24-16 Lon 125-02 D 142

Ther. MONDAY 22 Wea.

129

Pleasant Moderate Trade

Ther. TUESDAY 23 Wea.

130

Pleasant Light trades
and fine

Lat 27-27" L 127-38 D 125

Ther. WEDNESDAY, OCT. 24, 1888 Wea.

131

Moderate Trade WNE
with high flying fog

Ther. SATURDAY, OCT. 27, 1888 Wea.

134

Pleasant with occasional
fog Showers, light breeze
WNE

Lost the trades

Lat 25-54 Lon 129-14 Di 124

Ther.

THURSDAY 25

Wea.

132

Light breeze from N
Smooth Sea

Lat 33-10 L 133-50 Di 123

Ther.

SUNDAY 28

Wea.

135

Very pleasant and Warm
Calm as an old Pat

We are making away from
headway

Lat 30-32 Lon 130-40 Di 120

Ther.

FRIDAY 26

Wea.

133

Moderate breeze with
fog Showers through the
day We are certainly
lengthening out our voyage
No prospect of a fair wind
Dead Ahead

Lat 34-10 L 134-33 Di 118

Ther.

MONDAY 29

Wea.

136

Dead Calm the entire
24 hours

A large ship in sight
to the W- of us

Heave drifted South 7 miles
Passed a Bk bound S-

Lat 33-10^N L 133 50^W Di 125

Lat 34-03 L 134 34 Di 118

Ther.

TUESDAY, OCT. 30, 1888

Wea.

Pleasant Moderate breeze
N

Afternoon Strong breeze N

Bent the cables

Lat 35-18^N Lon 133-33^W Dr 10

Ther.

WEDNESDAY 31

Wea.

Fresh breeze N quite
a choppy sea

I do wish she would come
up these Points more

Lat 35-35 Lon 130-37 Dr 140

Ther.

THURSDAY, NOV. 1

Wea.

Quite pleasant but occasional
squalls of mist - moderate
breeze N by W. Bark in
sight to the W - bound N-

Lat 36-26 Lon 128-16 Dr 125

Ther.

FRIDAY, NOV. 2, 1888

Wea.

Overcast with high fog
Very light breeze N-

A ship in company supposed
to be the "St. John"

Lat Lon Dr

Ther.

SATURDAY 3

Wea.

Very heavy Gale from NW
and very bad sea
Ship taking much water

At 6 PM Made Harbours
1st Light bearing E- 2.5 miles
at 10 PM 1st bore N 3 miles
still blowing hard

Ther.

SUNDAY 4

Wea.

Pleasant at 3 PM Pilot
came on board took
charge and sailed in
over the Bar then the wind
came out E took steam
and towed in came to
anchor at 10 am 142 days
from Cardiff Ship "Lervia"

Ther.

MONDAY, NOV. 5, 1888

Wea.

Pleasant went on shore
Entered at Custom
house
Got our letters

Sailors went on shore

Ther.

TUESDAY 6

Wea.

Pleasant Election Day
great day in San
Francisco

Came on board at 3
PM

Heard the ship would
not dock for 10 days

Ther.

WEDNESDAY 7

Wea.

Pleasant fresh breeze
E.

Got a letter from H. Boat

"Josephus" arrived at noon

Ther.

THURSDAY, NOV. 8, 1888

Wea.

Pleasant went on shore
in morn

Capt Gilmore came at 10
am.

Ther.

FRIDAY 9

Wea.

Very pleasant We all
went on shore
Ellen went with with
us

Ther.

SATURDAY 10

Wea.

Pleasant went on shore
went to see when the
ship would get in 15 Berth
came on board at 3 PM
Ellen went to have her
teeth fixed

Ther.

SUNDAY, NOV. 11, 1888

Wea.

Pleasant - went on shore
to Church took dinner
to a Restaurant then
went out to the Golden
Gate Park got back on
board at 4-30 PM

Ther.

WEDNESDAY, NOV. 14, 1888

Wea.

Dull and overcast Went
on shore in morn Ellen
went with us In Evening
went to Carnival went
out with Ellen and stayed
with Mrs Grover all night

Ther.

MONDAY 12

Wea.

Pleasant - went on shore
Mrs Grover came on board
in afternoon

Ther.

THURSDAY 15

Wea.

Raining in torrents
all day with strong
breeze SE
Came on board ship
at 9 PM

Ther.

TUESDAY 13

Wea.

Went on shore stayed all
day went to see the
Berth that we are going
into

Ther.

FRIDAY 16

Wea.

Raining most all day
At Night clears off some
Went out to Mrs Grovers
and stayed all night

On shore all day

Ther. SATURDAY, NOV. 17, 1888 Wea.

Raining hard Went on
shore stayed all or rather
I stayed on shore last night
with Ellen at Mrs Grovers
came on board at night

Ther. SUNDAY 18 Wea.

Overcast and quite calm
went on shore to Church
then out to Mrs Grovers
after Ellen all came
on board at night

Ther. MONDAY 19 Wea.

Went on shore stayed
all day
Got orders to Dock
Ship tomorrow made arrange-
ments for same

Ther. TUESDAY, NOV. 20, 1888 Wea.

Raining hard in forenoon
9 AM Tug came to Dock
Ship got through at 11-30
costing \$10.00
at 1 PM commenced to
discharge at Oriental Dock
(Steward left Cook came)
back 16 days Extra Pay 50 tons

Ther. WEDNESDAY 21 Wea.

Pleasant at work discharging
was at Town all day

Cook commenced as
Steward

Ther. THURSDAY 22 Wea.

Raining most all
day

Dis this day 288 tons
Total out - 625 tons

Ther.

FRIDAY, NOV. 23, 1888

Wea.

Pleasant at work all
day discharging

Commenced new Backen
Acct

Ther.

SATURDAY 24

Wea.

Pleasant all day
At work discharging
Put 168 Tons out
511 out altogether

George Delano arrived

Ther.

SUNDAY 25

Wea.

Pleasant went to
Church in Morn
On board ship the
rest of the day

George Delano & Wif.
came in evening

Ther.

MONDAY, NOV. 26, 1888

Wea.

Pleasant At work
discharging - Went off
town

In evening Get Delano
& Wif. came also Chas
Hershey and stayed
all night

Ther.

TUESDAY 27

Wea.

Very pleasant - At work
discharging finished on
top of Lower deck Beams
and broke down to the
bottom of ship

Ther.

WEDNESDAY 28

Wea.

At work discharging
Very pleasant - Was off
town about all day

Chas Hershey went home
at noon

Cook stayed at work tonight & days for
in cooking

Ther. THURSDAY, NOV. 29, 1888 Wea.

Thanksgiving had a
big Turkey for dinner
In afternoon Ellen and
I went out to Cliff house

No work on cargo this day

Steward came back to work
this morn

Ther. FRIDAY 30 Wea.

Pleasant and quite cool
at work discharging

David and I went to
the Opera in evening

Called on Commodore Allen

Ther. SATURDAY, DEC. 1 Wea.

Rains and misty all day
Sten Stones at work all day got
out all coals abaft

Breasted off at 4:30 PM to let the
"Rivera" get into our Berth

Ther. SUNDAY, DEC. 2, 1888 Wea.

Bloody wind SE at 7 am
hailed across the Dock made
fast at Pacific Mail Dock West-
side

3 PM Capt & Mrs Colecord
called

Went to Church in evening

Book came back Steward

Ther. MONDAY 3 Wea.

Pleasant - Was up town
all day

Chartered the Ship
Blum. Baldwin & Kirwin
for orders 35/ Direct 32/6.

Continuant - between Havre
and Hamburg. Havre & Antwerp
excepted 40/ - 20 working lay
days Raining days excepted

Ther. TUESDAY 4 Wea.

Pleasant - Got our lining
lumber on board and the
liners at work

Got Letter from Lizzie
Jan & Heather

Ther. WEDNESDAY, DEC. 5, 1888 Wea.

Pleasant - Liners at
work lining up ship

Evening David & I
went to West Commodore
Allen

Got Letter from Jean &
Hattie - Lizzie.

Ther. THURSDAY 6 Wea.

Pleasant around town
all day

Spent Evening at Mrs. Conner

Got Letter from Bess &
Abbie

Ther. FRIDAY 7 Wea.

Pleasant Around town

Went up town in evening
with - Elmore & Dickinson

Ther. SATURDAY, DEC. 8, 1888 Wea.

Cloudy all day. Around
town. Getting ready to
go home Bought my tickets
to go on Mondays train
fare from San Francisco to Boston
\$22.00 Dollars each and \$12.00
for sleeper to Omaha & \$15.00

Ther. SUNDAY 9 Wea.

Left Oakland at 8:30 am
Sacramento 1:30 PM

Raining hard all day did
not go to church on
board ship all day getting
ready to go home

Ther. MONDAY 10 Wea.

Left Oakland 8:30 am
Sacramento 1:30 PM
for home

Passed Cape Horn 5 PM

Ther. TUESDAY, DEC. 11, 1888 Wea.

Took Breakfast at
Battle Mountain

Dinner at Wells
Supper at Terrace

Bed on at 9 P.M.

Ther. FRIDAY, DEC. 14, 1888 Wea.

Arrived at Chicago 10-30 am
Left Chicago 2.50 P.M.

Supper at Elkhart 8 P.M.

Ther. WEDNESDAY 12 Wea.

Pleasant and very cold
Snow on ground.

Took Breakfast at
Green River Wyoming.

Dinner at Rawlins Wyoming
Supper at Laramie 7 P.M.
Passed Sherman 1 P.M.

Ther. SATURDAY 15 Wea.

Buffalo at 6-30 A.M.

Dinner at Perryverse 1 P.M.

Supper at Albany at 7 P.M.

Ther. THURSDAY 13 Wea.

Breakfast at Grand Island
Nebraska 10 am.

Arrived at Omaha at
9-50 P.M. and left at 11 P.M.
on C.B. & Q. R.R. for Chicago

Ther. SUNDAY 16 Wea.

Arrived at Boston 12-15 am
Went to the American
House

Left Boston at 7 P.M. on
Eastern R.R.

Ther.

MONDAY, DEC. 17, 1888

Wea.

Arrived home from San-
Francisco by Overland
train at 1-15 AM found
Jan & Hattie in the house
ready to receive us
Raining all day
Got Billie home

Ther.

THURSDAY, DEC. 20, 1888

Wea.

Very pleasant the first of the day
afternoon clouds up and spits
snow Mr Lilly & Abbie
came to see us

Ther.

TUESDAY 18

Wea.

A Bad sleet storm in
forenoon. Afternoon snow
there are quite a number
of sleighs moving
Got down Paint and
done several jobs around
house. Got Letters from
D. Gilmore.

Went to Opera in eve

Ther.

WEDNESDAY 19

Wea.

Snowing part of the day
Cleaned up the stable
Took a short sleigh ride
Carried Hattie to the Depot
to go home. Carried my
sleigh to Mr Alexander to
get it Painted and Varnished

Ther.

FRIDAY 21

Wea.

Cloudy all day and looks
like snow
Got Billy Shod
Bought 2 bush Corn and 100
lbs Shorts

Ther.

SATURDAY 22

Wea.

Very pleasant and cold
Wind N.W., Afternoon
went up to Mr Plummers
and got 5 Hens
Worked around the house
most of the day

Ther. SUNDAY, DEC. 23, 1888

Wea.

Pleasant and cold

Went to Church in Evening

Ther. WEDNESDAY, DEC. 26, 1888

Wea.

Very pleasant and very warm
Calm all day
Afternoon had a Rifle shoot
with Jim H.
Made me a Gun cleaning
rod

Around the House most all
day Had some Coal come
1 load

Ther.

MONDAY 24

Wea.

Very Pleasant and Warm
Took Billy out on the
River for exercise
Afternoon went up to Mr
Alexanders to a Clay Pigeon
shoot made a score of
8 out of 23
Samuel Jack got badly hurt
by a run away horse

Ther.

TUESDAY 25

Wea.

A Very Pleasant and Warm
day Went down to Brunswick
to a Clay Pigeon shoot
made a score of 10 out of 20
Evening went to Xmas tree
at Methodist Church
Sam Jack died at 5 Pm

Ther.

THURSDAY 27

Wea.

Raining hard about all day
worked around the House
most of the day
Finished getting my 2 tons of
Coal

Ther.

FRIDAY 28

Wea.

Pleasant with a strong
breeze from W.
Worked around house in forenoon
Afternoon went down to
Evening quite cold
River breaking up in front
of the Village

Ther.

SATURDAY, DEC. 29, 1888

Wea.

MEMORANDA

Very pleasant and quite
mild worked around the
house in forenoon.

Afternoon went to Mr
Jacks Funeral

B.

1332.43

B.B.

500.00

B.B.

1286.44

a

1880.22

25

463.83

8

1305.45

748

1000.00

8057.87

RR Note with interest ^{May 16th 1888} to

130.00

RR Note

15.00

28

280.00

8522.67

Ther.

SUNDAY 30

Wea.

Pleasant went to Church
to Methodist Day and
Evening

Ther.

MONDAY 31

Wea.

Raining in the morn
Breaks up some in
afternoon and looks like
clearing up. Rains just
breaking up all around out
in front of the Village
Another year gone and
we are in Richmond

MEMORANDA

MEMORANDA

MEMORANDA

MEMORANDA

MEMORANDA

MEMORANDA

CASH ACCOUNT. JANUARY.

Date.	Received.	Paid.
Shoeing Horse		88
Diary		50
Postage Stamps		1 00
Cherry Staining		05
Sout Bond Capin	8.00	
Skates Straped		53
Artist Paint		24
Board for Turkey		1 00
"Frank J. Timson"	382 59	
Tobacco		20
Sherrage		20
Smells		60
Corn for Horse		30
Bending Pong Harness		60
Took out of Bank	390 00	
Tobacco		10
14 lbs Smells		60
Corn for Horse		20
Fare Bath 15 Richmond		50
Tobacco		10
Corn for Horse		45
Sevens for Pong		25
1500 lbs Hazy @ 12.00	9 40	
Picture frame		95
Sevens		12
	388.00	401 26

CASH ACCOUNT. JANUARY.

Date.	Received.	Paid.
Expense on Pong		
Bending Pong Harness		50
Sevens		37
Sevens		12
Paint		60
Bells		65
Pine Lumber		1 00
Looming Pong		12 00
Thills	16 25	75
		19 25

CASH ACCOUNT. APRIL.

Date.	Received.	Paid.
Japan		05
Sand Paper		06
Ribbers		65
P. Q. Box rent		25
Sealand Ticket		40
Fare 15 Bath		75
Sponge & Hooks		20
Recd from Stinson & Hazen	20 83	
Hoewing B. H. frame		2 50
Lumber from G. S.		3 20
Fare Bath 15 Richd		1 40
Dinner at Bath		35
Tobacco		15
Suit of Clothes	12 55	
Fare 15 Bath		75
Fare from Bath		50
Green Paint for Boat		64
White Paint & Oil		1 75
Lumber for C. & W.		20
Paint for Boat		40
Fare Richmond 15 Bath		75
Paint for Arbor		60
Paint for Fan		30
Iron for Mast & Arbor		1 40
Stamps		20
Broom & V		25
Starch		12
Fare Bath 15 Richmond		50
Nails for Boat house		1 40
Fare Richmond 15 Bath		50
Lumber for Varney		1 60

CASH ACCOUNT. APRIL.

Date.	Received.	Paid.
29 th Recd from G. Stinson on		
account of D. Gilmore \$ 25.00		
Logs from J. Spinnery		2 25
Labor on Boat house		12 00
	46 63	48 53
Nails for Boat house		1 40
Lumber of Varney		1 60
Logs of Spinnery		2 25
Labor on house		12 00
Plank of Spinnery		75
Chas. Wright Labor		31
Varney for Lumber		15 00
Groceries		3 48
Loysters		60
Nails		30
		40 65
Endorsed on Cash 2 nd Note	23 67	

CASH ACCOUNT. MAY.

CASH ACCOUNT. MAY.

Date.	Received.	Paid.
2 Spinning Plank		75-
Chas Wrights Labor		31
Varners Lumber	18 00	
Groceries	3 48	
Lobsters	60	
Nails	30	
Open house Entertainment	63-	
Tobacco	20	
Hare R 15 Bath	75-	
Hon Bath 15 R	50	
Recd from Schooners 10 51		
R.A. Degree in Masonry	25 00	
Ellen and my fare 15 Bath	50	
Back in Bath	50	
Supper in Bath	10	
Lobsters in Bath	26-	
Ferragages	44	
Hare from Bath	50	
Boat in Bath	50	
Recd on Acct from D.F.	75 00	
15 th Foxes	57.46	
Meat-	18	
Tobacco	10	
Tobacco	20	
Ellens Shells	2 50	
Minister	5 00	
Telegram	26-	
P.O. Keep. attorney	50	
Mrs H. Neal	45-	
Ellens fare 15 Boston	3 50	
Ellens meals	10	
	86 86	122 52

Date.	Received.	Paid.
Trucking Trunks in R.		23-
Ticket Richmond 15 Boston	7 00	
Telegrams	26-	
Meals in Boston	80	
Trucking in Boston	2 00	
Ticket from Boston to Liverpool	70 00	
Trucking in Liverpool	6-6	80.30
R.R. Ticket Liverpool 15 C. 1-2-0		
Extra Baggage	8-8	
Restaurant-	3-0	
Hotel bill	13-6	
Board on Shore	13-1	
Bread & Cheese	1-2	
Brought down		80 30
Trucking in Liverpool		1 50
Fare Liverpool 15 Cardiff		8 50
Extra Baggage		2 25
		92.55

Cash brought on board steamer "Atlas" 8/31/55

CASH ACCOUNT. JUNE.

Date.	Received.	Paid.
Pair Slippers		1 82
Suit of Clothes		14 62
Oil Coat		3 00
Oil Coat		50
Dog		3 00
		<u>22 34</u>

CASH ACCOUNT. JUNE.

Date.	Received.	Paid.
Cash Recd		
Knapp Bros	2 3-0-0	
Knapp Bros	5-0-0	
Knapp Bros	5-0-0	
D. Gilmore	2-0-0	
D. Gilmore	2 10-0	
Cash in Cardiff		
Drawn from Ship	12-2-3	

CASH ACCOUNT. JULY.

[illegible]

CASH ACCOUNT. JULY.

[illegible]

CASH ACCOUNT. AUGUST.

Date

Date.

Received.

Paid.

CASH ACCOUNT. AUGUST.

Date.

Received.

Paid.

CASH ACCOUNT. SEPTEMBER.

CASH ACCOUNT. SEPTEMBER.

[illegible]

CASH ACCOUNT. OCTOBER.

Date

Date.

Received.

Paid.

CASH ACCOUNT. OCTOBER.

Date.

Received.

Paid.

Traveling Expenses

Richmond to Boston \$ 9 25

Boston to Liverpool 70 00

Liverpool to Cardiff 7 00

San Francisco home 224 35

Ellens Board 96 00

\$406 60

Wages as Primage on Ch^o 1012 00

\$1012 00 406 60

7 Months work on
board ship "Servia" \$ 605 40

CASH ACCOUNT. NOVEMBER.

Date.

Received.

Paid.

Trent

30

Carnival

2 50

Car fare

50

Lock

50

\$ 3 80

CASH ACCOUNT. NOVEMBER.

Date.

Received.

Paid.

CASH ACCOUNT. DECEMBER.

Date.	Received.	Paid.
RR fare S.F. to B.		1 75
Truckage in S.F.		1 00
Wine & Coffee		1 00
Coffee		50
Sleeper Omaha to C		2 50
Breakfast in Chicago		1 15
Coffee		20
Porters		1 50
Coach in Boston		1 00
Sleeper Chicago to B		3 50
Hotel in Boston		5 00
Fare Boston to R		7 00
Truckage in Boston		25
Truckage in R		25
	\$224.35	
Expenses Richmond to Cardiff	\$2 65	
Total Anti-Traveling Expenses	\$314.80	
Expense for keep Billy		
15 1/2 months ending Jan 1 1888	\$70.21	

CASH ACCOUNT. DECEMBER.

Date.	Received.	Paid.
Fur Collar & Cuffs	\$14.75	
Billies board	20 00	
Red from Schornors	31.42	
3 1/4 bush Oats @ 45	5.86	
Hattie	2 00	
Richmond Bee	1 50	
Stone jug	20	
1 Sack Shorts & Knives	1 30	
2 bush Corn cracked	1 15	
Horse Shoeing	50	
Found dividend of Co		
Wm H. Stewart	58 88	
Int on G.H.T. Note	50 00	
5 Hens		1.25
1 bush Turnips		60
Lewiston Journal	2 00	
Col Newell Shoeing Billy	50	
Clay Pigeon Shoot	45	
Clotho Line	18	
Brunswick Shoot	3 83	
Theobalds Interest	50 00	
Frank Lovell for Chk	5 00	
1/2 bush Oats from Kuel	22	
Ellens Shawl Pin	1 25	
2 Tons Coal	13.00	
Wm Wilson Shoeing	25	
Mr Page for Hens	2 00	
	\$78.49	

BILLS PAYABLE. OCTOBER.

Date.	NAME.	Dolls. Cts.	
1/28	"John C. Haynes" (cash)		
1/28	"Frank T. Stinson" (cash)	382	57
1/28	"Horatio L. Baker" (cash)	581	18
RECEIVABLE.			

BILLS PAYABLE. NOVEMBER.

Date.	NAME.	Dolls.	Cts.

BILLS PAYABLE. DECEMBER.

MEMORANDA.

Date.	NAME.	Dolls.	Cts.
	Cash Recd from		
	J. F. Chapman		
Nov	5 th Cash Recd	20	00
15 th	Cash Recd	20	00
	Umbrella	2	25
	Cash from Bacher	1	50
22 nd	Cash for J. F. Chapman	50	00
Dec 3	Cash " " " "	50	00
" 8	Cash " " " "	300	00
		\$440	00
	RECEIVABLE.		

Date.		Dolls.	Cts.
	<u>Cash paid out</u>		
	Boatman	1	00
	Dinner		60
	Dinner		40
	Dinner		25
	Daniel McPhearson	1	00
	Dinner		20
	Mr Mahan	5	00
	Daniel McPhearson	2	00
	J. S. Schilling	2	00
	Theodore Olson 14 days Extra	5	33
	Dinner		25
	Daniel McPhearson	1	00
	J. S. Schilling	1	00
	Steward	10	00
	Cook	2	00
	Dinners		40
	Fruit		30
Dec 1	Mr Mahan 2 nd Mate	10	00
"	Daniel McPhearson	2	00
"	J. S. Schilling	2	00
4 th	J. S. Schilling	1	00
6 th	Daniel McPhearson	1	00
7 th	Cook	10	00
	P Mahan	6	00
		\$447	

MEMORANDA.

Date.

Dolls. Cts.

7 Pump Spears repaired
Connecting Links
Dead Light for Store Room
Sand Paper

"J. B. Haynes" Div N^o 4
"J. J. Stinson" Div N^o 5

ADDRESSES.

NAME. Will Henssey (Store)
STREET, No. Essex N^o 252
CITY. Salem Mass

NAME. W Henssey (Dwelling)
STREET, No. 48 Endicot St
CITY. Salem Mass

NAME. (Dodge) boys old Bonds
STREET, No.
CITY. San Francisco

NAME.
STREET, No. 306 Stoughton St
CITY.

NAME. No of our Checks from
STREET, No. Boston 15 Richmond
CITY. 560. 4292. 5791

NAME. Mr Goaffan
STREET, No. Minneapolis
CITY. Minnesota

NAME. M. P. Henderson
STREET, No. 315 Clon
CITY. California

NAME.
STREET, No.
CITY.

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STREET, No.

CITY.

NAME.

STREET, No.

CITY.

ADDRESSES.

NAME. *Draft of "Servia" with Supt*

STREET, No. *Hold Abaft 11-6ⁱⁿ*

CITY. *Forward 11-6ⁱⁿ*

NAME. *"Servia" Loaded*

STREET, No. *Abaft 23-11*

CITY. *Forward 23-05*

NAME.

STREET, No.

CITY.

NAME.

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STREET, No.

CITY.

8 m
12 $\frac{7}{8}$

296
115
180

